15.407(b)(2) Undesirable Emission Limits 5.25-5.35GHz

Test Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/2/2012
Test Type: **Radiated Scan** Time: 09:51:29
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 211
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T7	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
T8	AN00730	Preamp		1/31/2011	1/31/2013
T9	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T10	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T11	ANP05440	Cable		3/7/2011	3/7/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. . Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2). Recoded data is from the non-intentional radiation of the product.

Freq: 5590MHz
BW= 10MHz
802.11a: 24 Mbps, TX power setting= 21

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	32.597M	48.7	+0.0	+0.0	+0.0	+0.0	+0.0	39.6	40.0	-0.4	Vert
	QP		+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
^	32.597M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	40.5	40.0	+0.5	Vert
			+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
3	51.817M	57.8	+0.0	+0.0	+0.0	+0.0	+0.0	39.2	40.0	-0.8	Vert
	QP		+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						
^	51.817M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	41.4	40.0	+1.4	Vert
			+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						

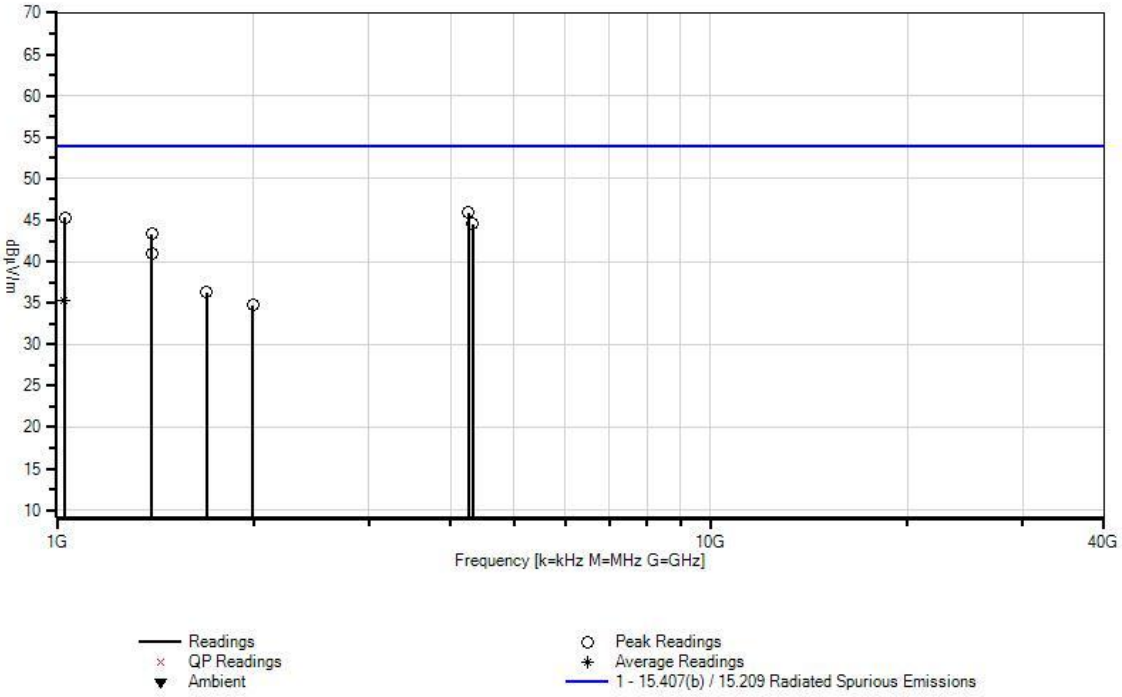
5	765.509M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Vert
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.509M	50.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.6	46.0	+1.6	Vert
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
7	30.627M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.0	40.0	-1.0	Vert
	QP		+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
^	30.627M	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.8	40.0	+1.8	Vert
			+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
9	765.572M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Horiz
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.572M	50.6	+0.0	+0.0	+0.0	+0.0	+0.0	47.3	46.0	+1.3	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
11	191.995M	59.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.1	43.5	-1.4	Vert
	QP		+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
^	191.995M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	43.5	-0.7	Vert
			+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
13	761.572M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Horiz
	QP		+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
^	761.572M	49.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	46.0	+0.4	Horiz
			+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
15	816.009M	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	46.0	-3.1	Vert
	QP		+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
^	816.009M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Vert
			+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
17	43.795M	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.2	40.0	-3.8	Vert
	QP		+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
^	43.795M	54.2	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	40.0	-1.1	Vert
			+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
19	720.009M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Vert
	QP		+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
^	720.009M	46.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.2	46.0	-3.8	Vert
			+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
21	695.350M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Horiz
			+0.0	+0.0	+19.8	-27.2					
			+0.2	+0.8	+1.6						

22	863.999M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	41.7	46.0	-4.3	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.8						
23	898.460M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.6	46.0	-4.4	Vert
			+0.0	+0.0	+21.8	-27.4					
			+0.2	+1.0	+1.9						
24	912.000M	43.8	+0.0	+0.0	+0.0	+0.0	+0.0	41.2	46.0	-4.8	Vert
			+0.0	+0.0	+21.8	-27.5					
			+0.2	+1.0	+1.9						
25	65.757M	55.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	40.0	-5.2	Vert
	QP		+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
^	65.757M	57.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.7	40.0	-3.3	Vert
			+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
27	39.480M	47.3	+0.0	+0.0	+0.0	+0.0	+0.0	34.5	40.0	-5.5	Vert
			+0.0	+0.0	+14.3	-27.6					
			+0.0	+0.2	+0.3						
28	960.000M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.9	46.0	-6.1	Vert
			+0.0	+0.0	+22.1	-27.8					
			+0.3	+1.0	+2.0						
29	165.607M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	36.6	43.5	-6.9	Vert
	QP		+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
^	165.607M	54.6	+0.0	+0.0	+0.0	+0.0	+0.0	38.3	43.5	-5.2	Vert
			+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
31	287.995M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	46.0	-7.1	Vert
			+0.0	+0.0	+12.9	-27.5					
			+0.1	+0.5	+1.0						
32	875.010M	40.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.5	46.0	-7.5	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.9						
33	794.590M	41.0	+0.0	+0.0	+0.0	+0.0	+0.0	38.4	46.0	-7.6	Vert
			+0.0	+0.0	+21.8	-27.2					
			+0.2	+0.9	+1.7						
34	4267.000M	66.2	+0.0	+32.7	+1.4	+3.9	+0.0	45.9	54.0	-8.1	Vert
			+1.4	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
35	1030.500M	78.3	+0.0	+23.5	+0.7	+1.8	+0.0	45.3	54.0	-8.7	Horiz
			+0.7	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
36	765.450M	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
37	231.780M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Vert
			+0.0	+0.0	+11.3	-27.5					
			+0.1	+0.4	+0.9						
38	88.850M	52.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.6	43.5	-8.9	Vert
			+0.0	+0.0	+8.7	-27.4					
			+0.0	+0.2	+0.5						

39	528.000M	43.8	+0.0 +0.0 +0.2	+0.0 +0.0 +0.7	+0.0 +18.2 +1.4	+0.0 -27.3	+0.0	37.0	46.0	-9.0	Horiz
40	4324.000M	64.9	+0.0 +1.4 +0.0	+32.5 -59.6 +0.0	+1.4 +0.0 +0.0	+3.9 +0.0	+0.0	44.5	54.0	-9.5	Horiz
41	695.430M	40.7	+0.0 +0.0 +0.2	+0.0 +0.0 +0.8	+0.0 +19.8 +1.6	+0.0 -27.2	+0.0	35.9	46.0	-10.1	Vert
42	499.180M	43.2	+0.0 +0.0 +0.2	+0.0 +0.0 +0.6	+0.0 +17.8 +1.3	+0.0 -27.3	+0.0	35.8	46.0	-10.2	Vert
43	299.520M	48.4	+0.0 +0.0 +0.1	+0.0 +0.0 +0.5	+0.0 +13.1 +1.0	+0.0 -27.4	+0.0	35.7	46.0	-10.3	Vert
44	563.030M	41.8	+0.0 +0.0 +0.2	+0.0 +0.0 +0.7	+0.0 +18.7 +1.4	+0.0 -27.3	+0.0	35.5	46.0	-10.5	Vert
45	1397.000M	75.3	+0.0 +0.8 +0.0	+24.0 -59.7 +0.0	+0.8 +0.0 +0.0	+2.1 +0.0	+0.0	43.3	54.0	-10.7	Horiz
46	336.020M	46.6	+0.0 +0.0 +0.1	+0.0 +0.0 +0.5	+0.0 +14.0 +1.1	+0.0 -27.5	+0.0	34.8	46.0	-11.2	Vert
47	629.230M	40.1	+0.0 +0.0 +0.2	+0.0 +0.0 +0.7	+0.0 +19.3 +1.5	+0.0 -27.1	+0.0	34.7	46.0	-11.3	Vert
48	239.980M	48.6	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.8 +0.9	+0.0 -27.5	+0.0	34.3	46.0	-11.7	Vert
49	192.000M	48.1	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +9.0 +0.8	+0.0 -27.5	+0.0	30.9	43.5	-12.6	Horiz
50	106.730M	46.7	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +10.5 +0.6	+0.0 -27.5	+0.0	30.7	43.5	-12.8	Vert
51	1396.000M	72.9	+0.0 +0.8 +0.0	+24.0 -59.7 +0.0	+0.8 +0.0 +0.0	+2.1 +0.0	+0.0	40.9	54.0	-13.1	Vert
52	96.000M	47.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +9.5 +0.5	+0.0 -27.6	+0.0	30.2	43.5	-13.3	Vert
53	399.200M	41.9	+0.0 +0.0 +0.1	+0.0 +0.0 +0.6	+0.0 +15.5 +1.2	+0.0 -27.4	+0.0	31.9	46.0	-14.1	Horiz
54	624.000M	35.9	+0.0 +0.0 +0.2	+0.0 +0.0 +0.7	+0.0 +19.3 +1.5	+0.0 -27.1	+0.0	30.5	46.0	-15.5	Horiz
55	32.610M	33.3	+0.0 +0.0 +0.0	+0.0 +0.0 +0.1	+0.0 +18.1 +0.3	+0.0 -27.6	+0.0	24.2	40.0	-15.8	Horiz

56	1696.000M	66.6	+0.0 +0.9 +0.0	+25.1 -59.5 +0.0	+0.9 +0.0 +0.0	+2.3 +0.0	+0.0	36.3	54.0	-17.7	Vert
57	232.900M	43.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.3 +0.9	+0.0 -27.5	+0.0	28.2	46.0	-17.8	Horiz
58	144.010M	40.3	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.4 +0.7	+0.0 -27.4	+0.0	25.4	43.5	-18.1	Vert
59	1026.600M Ave	68.4	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	35.3	54.0	-18.7	Vert
^	1026.600M	83.9	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	50.8	54.0	-3.2	Vert
61	1993.000M	63.3	+0.0 +0.9 +0.0	+26.5 -59.5 +0.0	+1.0 +0.0 +0.0	+2.5 +0.0	+0.0	34.7	54.0	-19.3	Vert
62	121.030M	38.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.5 +0.6	+0.0 -27.4	+0.0	23.1	43.5	-20.4	Vert
63	66.200M	39.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +6.1 +0.4	+0.0 -27.5	+0.0	18.8	40.0	-21.2	Horiz
64	43.490M	33.7	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +12.0 +0.3	+0.0 -27.6	+0.0	18.6	40.0	-21.4	Horiz
65	240.020M	35.9	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.8 +0.9	+0.0 -27.5	+0.0	21.6	46.0	-24.4	Horiz

CKC Laboratories, Inc. Date: 6/2/2012 Time: 09:51:29 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 211 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/27/2012
Test Type: **Radiated Scan** Time: 08:11:46
Equipment: **5GHz Tri-Sector (17dBi)** Sequence#: 200
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10T
S/N: EMI 1

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
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	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (17dBi)*	Digital Path	G5RL10T	EMI 1

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
Radio 0, TX
Radio 1, OFF

5250-5350HHz

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11,11,11
802.11n: 13MCSHT20 2S,TX power setting= 11,11,11

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting= 12.5,13.5,13.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12, 13.5,12

Temperature: 21.9 °C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa
No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.
Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

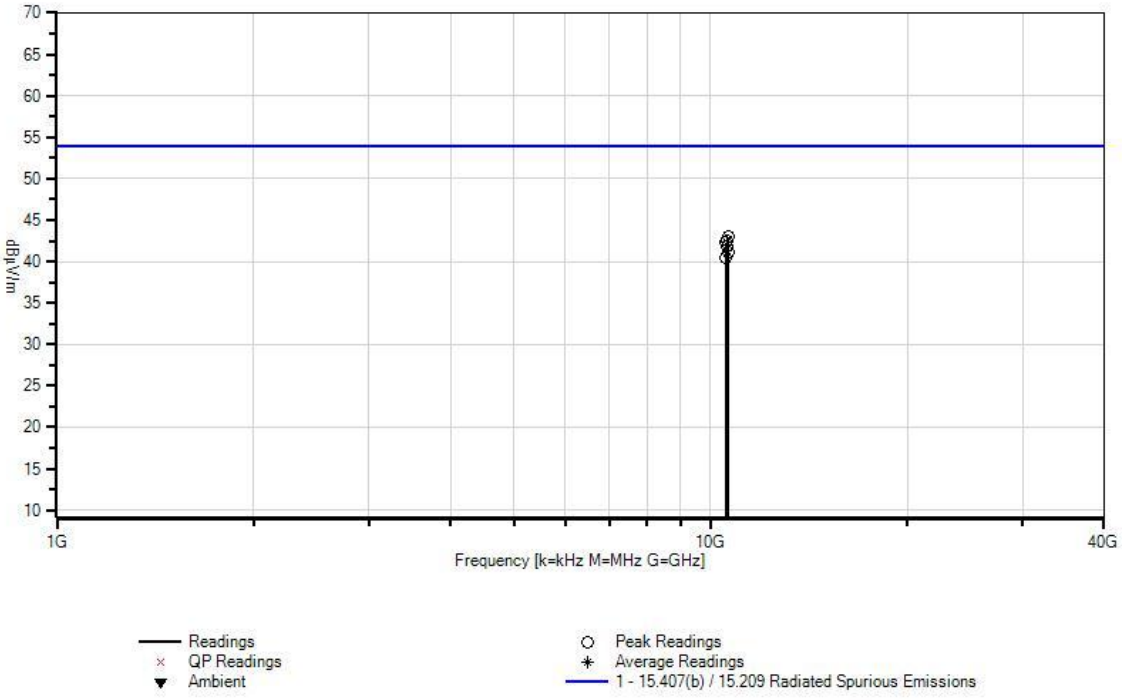
Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10641.000 M	51.3	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	43.0	54.0	-11.0	Horiz
2	10602.800 M	51.2	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	42.5	54.0	-11.5	Horiz
3	10546.000 M	51.1	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	42.3	54.0	-11.7	Vert
4	10574.600 M	50.9	+0.0 +2.1	+39.3 -59.4	+2.3 +0.0	+6.7	+0.0	41.9	54.0	-12.1	Horiz
5	10640.000 M	49.4	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	41.1	54.0	-12.9	Horiz
6	10551.000 M	49.2	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	40.4	54.0	-13.6	Vert

CKC Laboratories, Inc. Date: 5/27/2012 Time: 08:11:46 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 200 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/29/2012
Test Type: **Radiated Scan** Time: 21:45:00
Equipment: **5GHz Sector (20 dBi)** Sequence#: 203
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10E
S/N: EMI 3

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Sector (20 dBi)*	Digital Path	G5RL10E	EMI 3

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active
Vertical polarity of the antenna is connected to Card 1, Ant port 2
Horizontal polarity of the antenna is connected to Card 1, Ant port 0

Radio 0, OFF
Radio 1, TX

5250-5350HHz

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power= 10.5,10.5,10.5
802.11n: 13MCSHT20 2S,TX power= 10.5,10.5,10.5

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power= 10.5,10.5,10.5
802.11n: 6.5MCS HT20 1S, TX power= 10.5,10.5,10.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

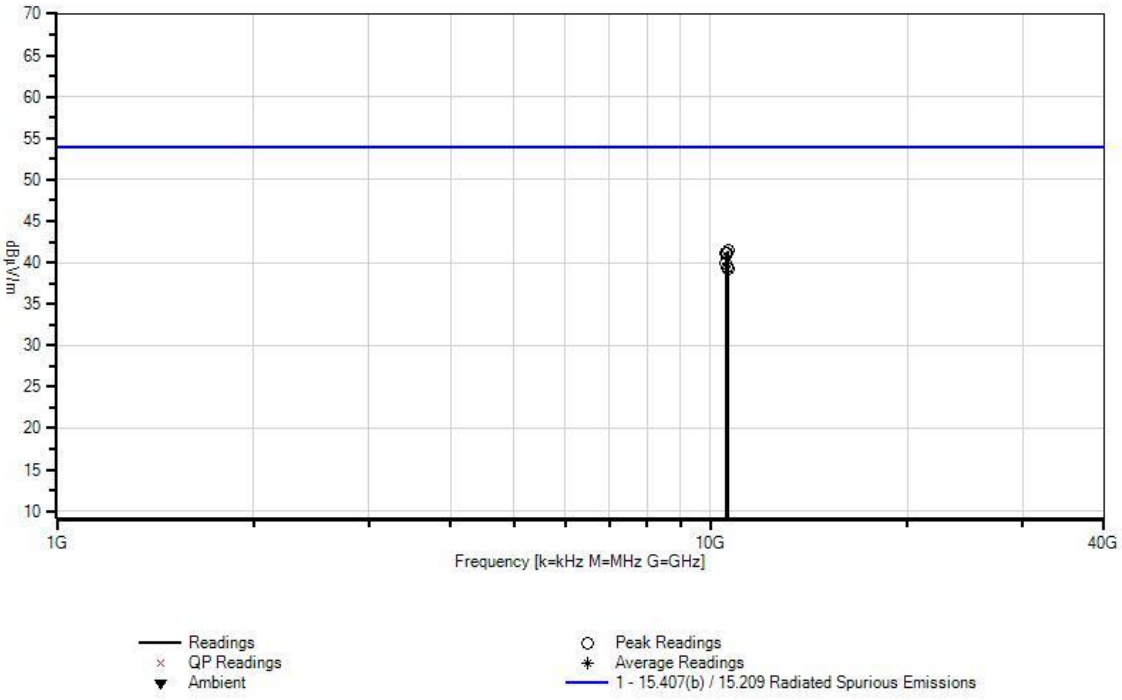
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10640.000 M	49.7	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	41.4	54.0	-12.6	Vert
2	10557.700 M	50.1	+0.0 +2.1	+39.3 -59.3	+2.3 +0.0	+6.7	+0.0	41.2	54.0	-12.8	Vert
3	10601.000 M	49.8	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	41.1	54.0	-12.9	Vert

4	10550.000 M	48.7	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	39.9	54.0	-14.1	Vert
5	10600.000 M	48.1	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	39.4	54.0	-14.6	Vert
6	10650.140 M	47.5	+0.0 +2.1	+39.3 -58.6	+2.3 +0.0	+6.7	+0.0	39.3	54.0	-14.7	Horiz

CKC Laboratories, Inc. Date: 5/29/2012 Time: 21:45:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 203 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 10:46:49
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 206
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 11dBi Omni antenna connected to radio 0 (instance 1)

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 17.5, 17.5, 17.5
802.11n: 13MCSHT20 2S,TX power setting= 17.5, 17.5, 17.5

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power= 19, 19, 18
802.11n: 6.5MCS HT20 1S, TX power= 19, 19, 18

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10595.200 M	56.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	47.8	54.0 20MHz 802-11b-6.5MCSHT201S	-6.2	Vert
2	10569.600 M	54.9	+0.0 +2.1 +0.0	+39.3 -59.4	+2.3 +0.0	+6.7 +0.0	+0.0	45.9	54.0 20MHz 802-11b-6.5MCSHT201S	-8.1	Horiz
3	10551.900 M	53.0	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	44.2	54.0 10MHz-802.11n 13MCSHT202S	-9.8	Vert
4	10649.000 M Ave	51.8	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	43.6	54.0 10MHz 802.11a_24Mbps	-10.4	Horiz

^	10649.000 M	64.1	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	55.9	54.0	+1.9	Horiz	10MHz 802.11a_24Mbps
6	10560.000 M	51.9	+0.0 +2.1 +0.0	+39.3 -59.3	+2.3 +0.0	+6.7 +0.0	+0.0	43.0	54.0	-11.0	Vert	20MHz 802-11b-6.5MCSHT201S
7	10650.100 M Ave	49.1	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	40.9	54.0	-13.1	Horiz	10MHz-802.11n 13MCSHT202S
^	10650.100 M	63.8	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	55.6	54.0	+1.6	Horiz	10MHz-802.11n 13MCSHT202S
9	10641.150 M Ave	48.1	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	39.8	54.0	-14.2	Horiz	20MHz 802-11a 9Mbps
^	10641.150 M	60.8	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	52.5	54.0	-1.5	Horiz	20MHz 802-11a 9Mbps
11	15901.050 M Ave	41.8	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	39.5	54.0	-14.5	Horiz	10MHz 802.11a_24Mbps
^	15901.050 M	54.9	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	52.6	54.0	-1.4	Horiz	10MHz 802.11a_24Mbps
13	15824.700 M Ave	41.4	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	39.3	54.0	-14.7	Vert	10MHz-802.11n 13MCSHT202S
^	15824.700 M	56.4	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	54.3	54.0	+0.3	Vert	10MHz-802.11n 13MCSHT202S
15	21098.000 M Ave	50.2	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	39.2	54.0	-14.8	Horiz	10MHz 802.11a 24Mbps
^	21098.000 M	61.7	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	50.7	54.0	-3.3	Horiz	10MHz 802.11a 24Mbps
17	15975.000 M Ave	41.5	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	39.1	54.0	-14.9	Vert	10MHz-802.11n 13MCSHT202S

^	15975.000 M	53.2	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	50.8	54.0	-3.2	Vert	10MHz-802.11n 13MCSHT202S
19	15824.100 M Ave	41.1	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	39.0	54.0	-15.0	Horiz	10MHz-802.11n 13MCSHT202S
^	15824.100 M	54.1	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	52.0	54.0	-2.0	Horiz	10MHz-802.11n 13MCSHT202S
21	10560.000 M	47.8	+0.0 +2.1 +0.0	+39.3 -59.3	+2.3 +0.0	+6.7 +0.0	+0.0	38.9	54.0	-15.1	Vert	20MHz 802-11a 9Mbps
22	15900.500 M Ave	41.2	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.9	54.0	-15.1	Vert	10MHz-802.11n 13MCSHT202S
^	15900.500 M	54.7	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	52.4	54.0	-1.6	Vert	10MHz-802.11n 13MCSHT202S
24	15898.100 M Ave	41.1	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.8	54.0	-15.2	Horiz	10MHz-802.11n 13MCSHT202S
^	15898.100 M	54.2	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	51.9	54.0	-2.1	Horiz	10MHz-802.11n 13MCSHT202S
26	15960.000 M Ave	41.1	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	38.7	54.0	-15.3	Horiz	20MHz 802-11b-6.5MCSHT201S
^	15960.000 M	53.9	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	51.5	54.0	-2.5	Horiz	20MHz 802-11b-6.5MCSHT201S
28	15840.000 M Ave	40.7	+0.0 +2.9 +0.0	+40.1 -57.5	+2.8 +1.0	+8.5 +0.0	+0.0	38.5	54.0	-15.5	Vert	20MHz 802-11b-6.5MCSHT201S
^	15840.000 M	54.1	+0.0 +2.9 +0.0	+40.1 -57.5	+2.8 +1.0	+8.5 +0.0	+0.0	51.9	54.0	-2.1	Vert	20MHz 802-11b-6.5MCSHT201S
30	15974.600 M Ave	40.7	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	38.3	54.0	-15.7	Horiz	10MHz 802.11a_24Mbps

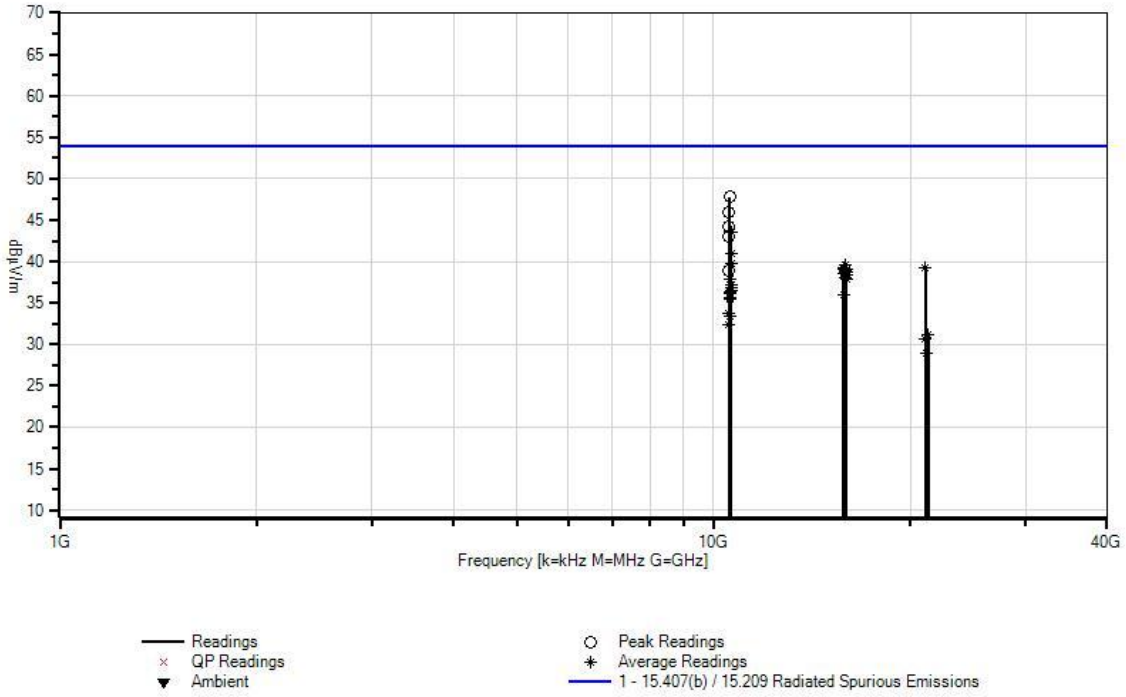
31	15900.000 M Ave	40.4	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.1	54.0	-15.9	Horiz	20MHz 802-11a 9Mbps
^	15900.000 M	53.8	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	51.5	54.0	-2.5	Horiz	20MHz 802-11a 9Mbps
33	10600.700 M Ave	46.6	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	37.9	54.0	-16.1	Horiz	10MHz 802.11a_24Mbps
^	10600.700 M	58.9	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	50.2	54.0	-3.8	Horiz	10MHz 802.11a_24Mbps
35	15974.600 M Ave	40.3	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	37.9	54.0	-16.1	Horiz	10MHz-802.11n 13MCSHT202S
^	15974.600 M	54.1	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	51.7	54.0	-2.3	Horiz	10MHz 802.11a_24Mbps
^	15974.600 M	52.7	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	50.3	54.0	-3.7	Horiz	10MHz-802.11n 13MCSHT202S
38	10649.600 M Ave	45.3	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	37.1	54.0	-16.9	Vert	10MHz 802.11a_24Mbps
^	10649.600 M	57.5	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	49.3	54.0	-4.7	Vert	10MHz 802.11a_24Mbps
40	10640.000 M Ave	45.2	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.9	54.0	-17.1	Vert	20MHz 802-11b-6.5MCSHT201S
^	10640.000 M	59.3	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	51.0	54.0	-3.0	Vert	20MHz 802-11b-6.5MCSHT201S
42	10640.000 M Ave	45.1	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.8	54.0	-17.2	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10640.000 M	58.6	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	50.3	54.0	-3.7	Horiz	20MHz 802-11b-6.5MCSHT201S

44	10650.000 M Ave	45.0	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	36.8	54.0	-17.2	Vert	10MHz-802.11n 13MCSHT202S
^	10650.000 M	59.5	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	51.3	54.0	-2.7	Vert	10MHz-802.11n 13MCSHT202S
46	10638.700 M Ave	44.8	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.5	54.0	-17.5	Vert	20MHz 802-11a 9Mbps
^	10638.700 M	57.3	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	49.0	54.0	-5.0	Vert	20MHz 802-11a 9Mbps
48	10600.000 M Ave	45.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	36.4	54.0	-17.6	Horiz	20MHz 802-11a 9Mbps
49	10600.000 M Ave	44.9	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	36.2	54.0	-17.8	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10600.000 M	59.3	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	50.6	54.0	-3.4	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10600.000 M	58.2	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	49.5	54.0	-4.5	Horiz	20MHz 802-11a 9Mbps
52	15823.100 M Ave	38.0	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	35.9	54.0	-18.1	Horiz	10MHz 802.11a_24Mbps
^	15823.100 M	50.6	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	48.5	54.0	-5.5	Horiz	10MHz 802.11a_24Mbps
54	10596.800 M Ave	44.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	35.7	54.0	-18.3	Horiz	10MHz-802.11n 13MCSHT202S
^	10596.800 M	57.2	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	48.4	54.0	-5.6	Horiz	10MHz-802.11n 13MCSHT202S
56	10600.000 M Ave	44.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	35.4	54.0	-18.6	Vert	10MHz 802.11a_24Mbps

^	10600.000 M	57.2	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	48.5	54.0	-5.5	Vert	10MHz 802.11a_24Mbps
^	10600.000 M	54.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	45.4	54.0	-8.6	Vert	20MHz 802-11a 9Mbps
59	10549.500 M Ave	42.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	33.8	54.0	-20.2	Horiz	10MHz 802.11a_24Mbps
^	10549.500 M	54.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	45.7	54.0	-8.3	Horiz	10MHz 802.11a_24Mbps
61	10549.400 M Ave	42.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	33.7	54.0	-20.3	Horiz	10MHz-802.11n 13MCSHT202S
^	10549.400 M	56.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	47.8	54.0	-6.2	Horiz	10MHz-802.11n 13MCSHT202S
63	10600.500 M Ave	42.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	33.4	54.0	-20.6	Vert	10MHz-802.11n 13MCSHT202S
^	10600.500 M	57.4	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	48.7	54.0	-5.3	Vert	10MHz-802.11n 13MCSHT202S
65	10548.250 M Ave	41.1	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	32.3	54.0	-21.7	Vert	10MHz 802.11a_24Mbps
^	10548.250 M	54.4	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	45.6	54.0	-8.4	Vert	10MHz 802.11a_24Mbps
67	21300.000 M Ave	42.4	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.4	+0.0	31.2	54.0	-22.8	Horiz	10MHz 802.11a 24 Mbps
^	21300.000 M	55.3	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.4	+0.0	44.1	54.0	-9.9	Horiz	10MHz 802.11a 24 Mbps
69	21098.000 M Ave	41.7	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	30.7	54.0	-23.3	Vert	10MHz 802.11a 24Mbps

^	21098.000 M	54.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	43.1	54.0 10MHz 802.11a 24Mbps	-10.9	Vert
71	21200.000 M Ave	40.0	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.3	+0.0	28.9	54.0 10MHz 802.11a 24Mbps	-25.1	Horiz
^	21200.000 M	52.7	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.3	+0.0	41.6	54.0 10MHz 802.11a 24Mbps	-12.4	Horiz

CKC Laboratories, Inc. Date: 6/1/2012 Time: 10:46:49 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 206 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 19:25:21
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 209
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2)

5250-5350HHz

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 10.,10.,10
802.11n: 13MCSHT20 2S,TX power setting= 10.,10.,10

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting 12.5,12.5,12.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12.5,12.5,12.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

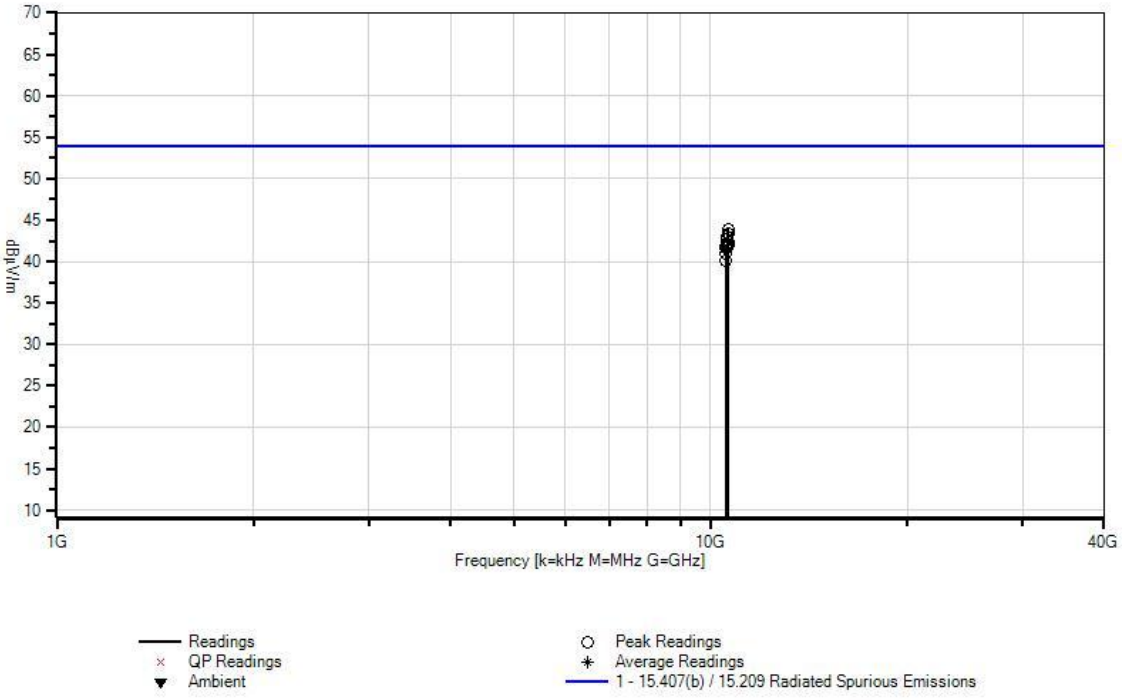
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10640.000 M	52.2	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	43.9	54.0	-10.1	Horiz
2	10650.000 M	51.6	+0.0 +2.1	+39.3 -58.6	+2.3 +0.0	+6.7	+0.0	43.4	54.0	-10.6	Horiz
3	10600.000 M	51.7	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	43.0	54.0	-11.0	Horiz
4	10600.000 M	51.3	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	42.6	54.0	-11.4	Vert

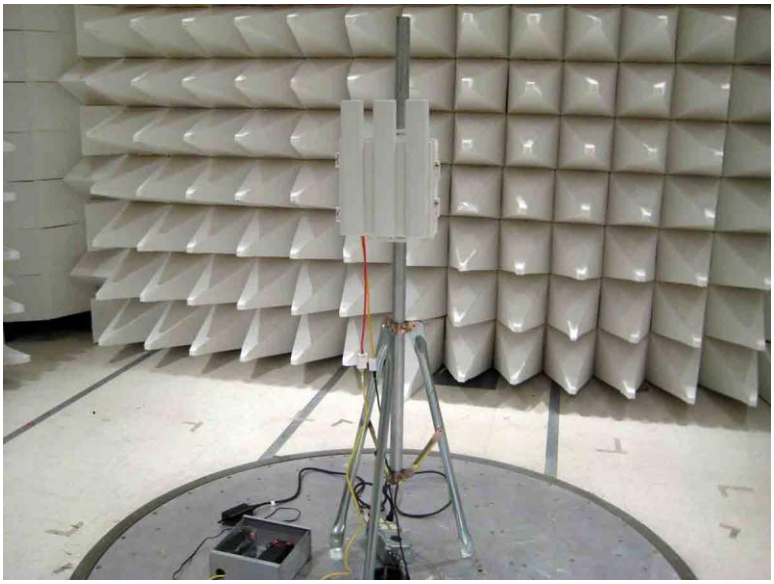
5	10650.000 M	50.5	+0.0 +2.1	+39.3 -58.6	+2.3 +0.0	+6.7	+0.0	42.3	54.0	-11.7	Vert
6	10640.000 M	50.3	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	42.0	54.0	-12.0	Vert
7	10600.000 M	50.7	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	42.0	54.0	-12.0	Vert
8	10600.000 M	50.6	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	41.9	54.0	-12.1	Horiz
9	10560.000 M	50.7	+0.0 +2.1	+39.3 -59.3	+2.3 +0.0	+6.7	+0.0	41.8	54.0	-12.2	Horiz
10	10550.000 M	50.5	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	41.7	54.0	-12.3	Horiz
11	10551.100 M	49.8	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	41.0	54.0	-13.0	Vert
12	10560.000 M	49.0	+0.0 +2.1	+39.3 -59.3	+2.3 +0.0	+6.7	+0.0	40.1	54.0	-13.9	Vert

CKC Laboratories, Inc. Date: 6/1/2012 Time: 19:25:21 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 209 Vert
UNII Bands. 20MHz Channel width.

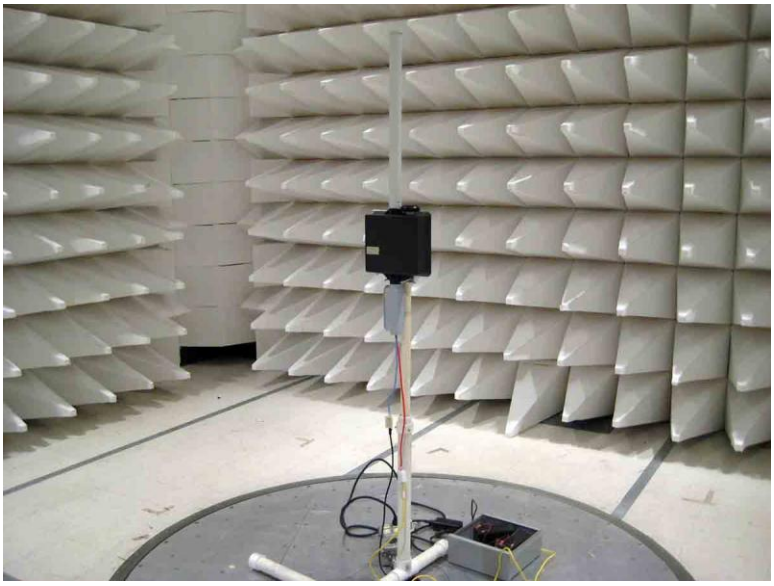


Test Setup Photos

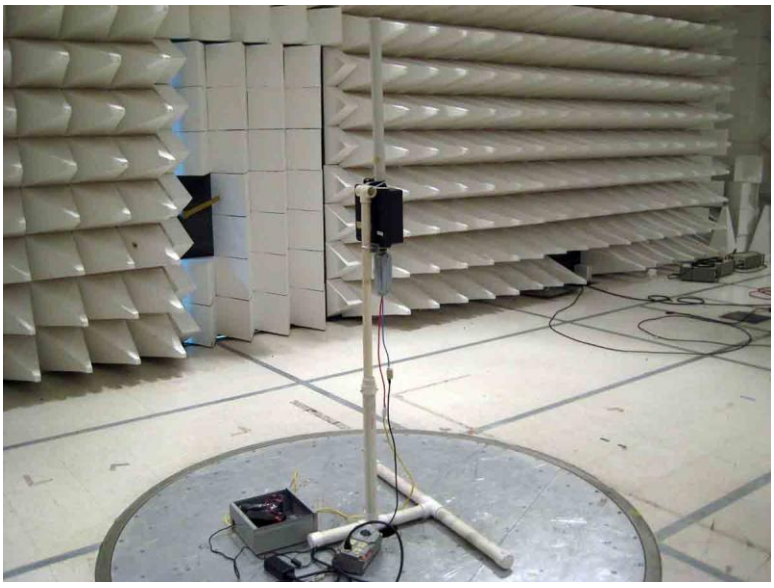
17dBi Sector



17dBi Sector

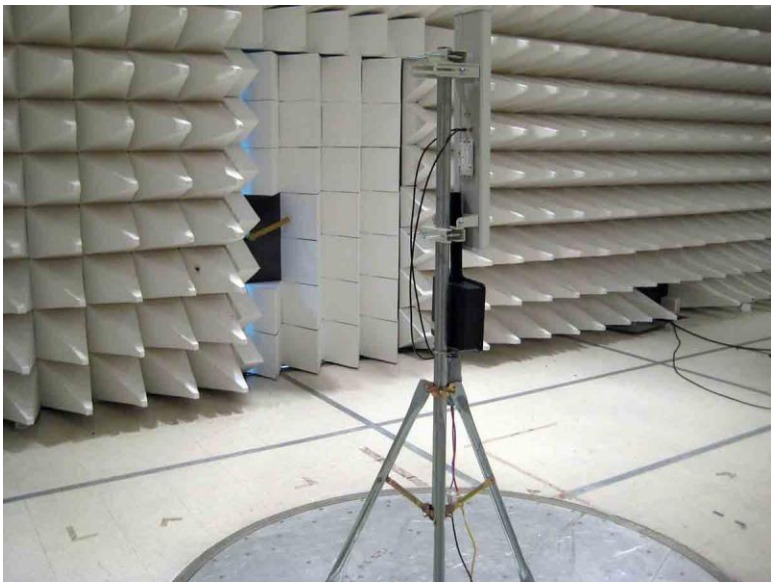


18dBi, 11dBi



18dBi, 11dBi

20dBi Sector



20dBi Sector

15.407(b)(3) Undesirable Emission Limits 5.47-5.725GHz

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/2/2012
Test Type: **Radiated Scan** Time: 09:51:29
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 211
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T7	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
T8	AN00730	Preamp		1/31/2011	1/31/2013
T9	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T10	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T11	ANP05440	Cable		3/7/2011	3/7/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. . Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2). Recoded data is from the non-intentional radiation of the product.

Freq: 5590MHz
BW= 10MHz
802.11a: 24 Mbps, TX power setting= 21

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	32.597M	48.7	+0.0	+0.0	+0.0	+0.0	+0.0	39.6	40.0	-0.4	Vert
	QP		+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
^	32.597M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	40.5	40.0	+0.5	Vert
			+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
3	51.817M	57.8	+0.0	+0.0	+0.0	+0.0	+0.0	39.2	40.0	-0.8	Vert
	QP		+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						
^	51.817M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	41.4	40.0	+1.4	Vert
			+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						

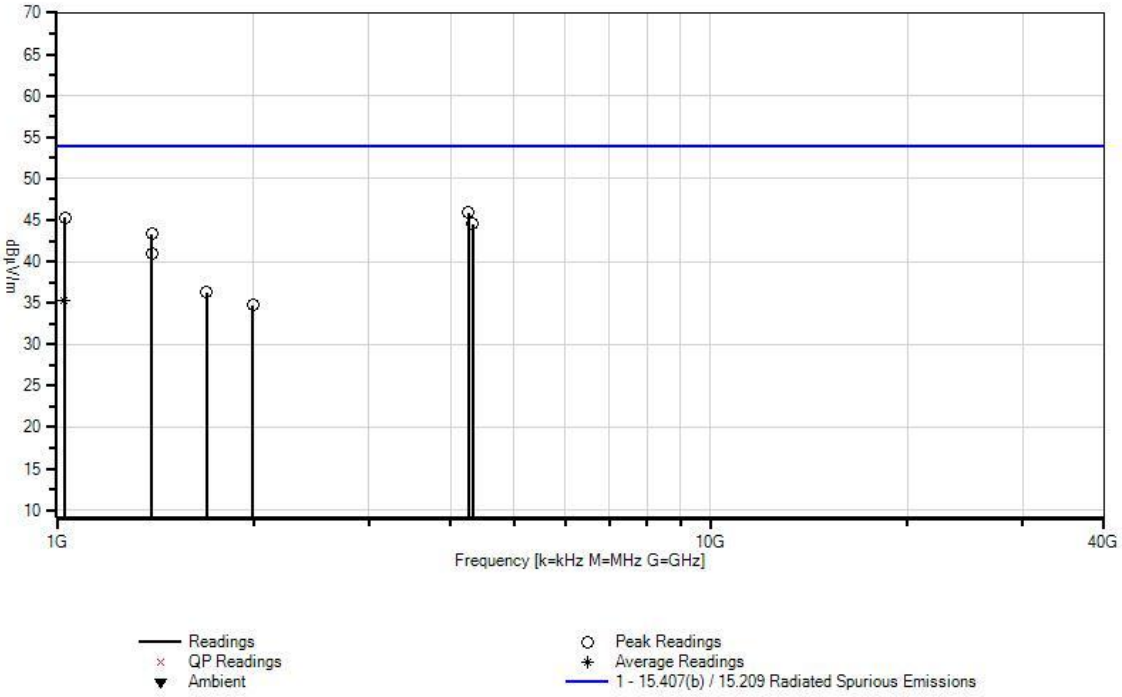
5	765.509M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Vert
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.509M	50.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.6	46.0	+1.6	Vert
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
7	30.627M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.0	40.0	-1.0	Vert
	QP		+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
^	30.627M	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.8	40.0	+1.8	Vert
			+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
9	765.572M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Horiz
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.572M	50.6	+0.0	+0.0	+0.0	+0.0	+0.0	47.3	46.0	+1.3	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
11	191.995M	59.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.1	43.5	-1.4	Vert
	QP		+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
^	191.995M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	43.5	-0.7	Vert
			+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
13	761.572M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Horiz
	QP		+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
^	761.572M	49.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	46.0	+0.4	Horiz
			+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
15	816.009M	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	46.0	-3.1	Vert
	QP		+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
^	816.009M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Vert
			+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
17	43.795M	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.2	40.0	-3.8	Vert
	QP		+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
^	43.795M	54.2	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	40.0	-1.1	Vert
			+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
19	720.009M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Vert
	QP		+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
^	720.009M	46.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.2	46.0	-3.8	Vert
			+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
21	695.350M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Horiz
			+0.0	+0.0	+19.8	-27.2					
			+0.2	+0.8	+1.6						

22	863.999M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	41.7	46.0	-4.3	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.8						
23	898.460M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.6	46.0	-4.4	Vert
			+0.0	+0.0	+21.8	-27.4					
			+0.2	+1.0	+1.9						
24	912.000M	43.8	+0.0	+0.0	+0.0	+0.0	+0.0	41.2	46.0	-4.8	Vert
			+0.0	+0.0	+21.8	-27.5					
			+0.2	+1.0	+1.9						
25	65.757M	55.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	40.0	-5.2	Vert
	QP		+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
^	65.757M	57.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.7	40.0	-3.3	Vert
			+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
27	39.480M	47.3	+0.0	+0.0	+0.0	+0.0	+0.0	34.5	40.0	-5.5	Vert
			+0.0	+0.0	+14.3	-27.6					
			+0.0	+0.2	+0.3						
28	960.000M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.9	46.0	-6.1	Vert
			+0.0	+0.0	+22.1	-27.8					
			+0.3	+1.0	+2.0						
29	165.607M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	36.6	43.5	-6.9	Vert
	QP		+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
^	165.607M	54.6	+0.0	+0.0	+0.0	+0.0	+0.0	38.3	43.5	-5.2	Vert
			+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
31	287.995M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	46.0	-7.1	Vert
			+0.0	+0.0	+12.9	-27.5					
			+0.1	+0.5	+1.0						
32	875.010M	40.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.5	46.0	-7.5	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.9						
33	794.590M	41.0	+0.0	+0.0	+0.0	+0.0	+0.0	38.4	46.0	-7.6	Vert
			+0.0	+0.0	+21.8	-27.2					
			+0.2	+0.9	+1.7						
34	4267.000M	66.2	+0.0	+32.7	+1.4	+3.9	+0.0	45.9	54.0	-8.1	Vert
			+1.4	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
35	1030.500M	78.3	+0.0	+23.5	+0.7	+1.8	+0.0	45.3	54.0	-8.7	Horiz
			+0.7	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
36	765.450M	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
37	231.780M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Vert
			+0.0	+0.0	+11.3	-27.5					
			+0.1	+0.4	+0.9						
38	88.850M	52.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.6	43.5	-8.9	Vert
			+0.0	+0.0	+8.7	-27.4					
			+0.0	+0.2	+0.5						

39	528.000M	43.8	+0.0	+0.0	+0.0	+0.0	+0.0	37.0	46.0	-9.0	Horiz
			+0.0	+0.0	+18.2	-27.3					
			+0.2	+0.7	+1.4						
40	4324.000M	64.9	+0.0	+32.5	+1.4	+3.9	+0.0	44.5	54.0	-9.5	Horiz
			+1.4	-59.6	+0.0	+0.0					
			+0.0	+0.0	+0.0						
41	695.430M	40.7	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	46.0	-10.1	Vert
			+0.0	+0.0	+19.8	-27.2					
			+0.2	+0.8	+1.6						
42	499.180M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	35.8	46.0	-10.2	Vert
			+0.0	+0.0	+17.8	-27.3					
			+0.2	+0.6	+1.3						
43	299.520M	48.4	+0.0	+0.0	+0.0	+0.0	+0.0	35.7	46.0	-10.3	Vert
			+0.0	+0.0	+13.1	-27.4					
			+0.1	+0.5	+1.0						
44	563.030M	41.8	+0.0	+0.0	+0.0	+0.0	+0.0	35.5	46.0	-10.5	Vert
			+0.0	+0.0	+18.7	-27.3					
			+0.2	+0.7	+1.4						
45	1397.000M	75.3	+0.0	+24.0	+0.8	+2.1	+0.0	43.3	54.0	-10.7	Horiz
			+0.8	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
46	336.020M	46.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	46.0	-11.2	Vert
			+0.0	+0.0	+14.0	-27.5					
			+0.1	+0.5	+1.1						
47	629.230M	40.1	+0.0	+0.0	+0.0	+0.0	+0.0	34.7	46.0	-11.3	Vert
			+0.0	+0.0	+19.3	-27.1					
			+0.2	+0.7	+1.5						
48	239.980M	48.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.3	46.0	-11.7	Vert
			+0.0	+0.0	+11.8	-27.5					
			+0.1	+0.4	+0.9						
49	192.000M	48.1	+0.0	+0.0	+0.0	+0.0	+0.0	30.9	43.5	-12.6	Horiz
			+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
50	106.730M	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	30.7	43.5	-12.8	Vert
			+0.0	+0.0	+10.5	-27.5					
			+0.1	+0.3	+0.6						
51	1396.000M	72.9	+0.0	+24.0	+0.8	+2.1	+0.0	40.9	54.0	-13.1	Vert
			+0.8	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
52	96.000M	47.6	+0.0	+0.0	+0.0	+0.0	+0.0	30.2	43.5	-13.3	Vert
			+0.0	+0.0	+9.5	-27.6					
			+0.0	+0.2	+0.5						
53	399.200M	41.9	+0.0	+0.0	+0.0	+0.0	+0.0	31.9	46.0	-14.1	Horiz
			+0.0	+0.0	+15.5	-27.4					
			+0.1	+0.6	+1.2						
54	624.000M	35.9	+0.0	+0.0	+0.0	+0.0	+0.0	30.5	46.0	-15.5	Horiz
			+0.0	+0.0	+19.3	-27.1					
			+0.2	+0.7	+1.5						
55	32.610M	33.3	+0.0	+0.0	+0.0	+0.0	+0.0	24.2	40.0	-15.8	Horiz
			+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						

56	1696.000M	66.6	+0.0 +0.9 +0.0	+25.1 -59.5 +0.0	+0.9 +0.0 +0.0	+2.3 +0.0	+0.0	36.3	54.0	-17.7	Vert
57	232.900M	43.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.3 +0.9	+0.0 -27.5	+0.0	28.2	46.0	-17.8	Horiz
58	144.010M	40.3	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.4 +0.7	+0.0 -27.4	+0.0	25.4	43.5	-18.1	Vert
59	1026.600M Ave	68.4	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	35.3	54.0	-18.7	Vert
^	1026.600M	83.9	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	50.8	54.0	-3.2	Vert
61	1993.000M	63.3	+0.0 +0.9 +0.0	+26.5 -59.5 +0.0	+1.0 +0.0 +0.0	+2.5 +0.0	+0.0	34.7	54.0	-19.3	Vert
62	121.030M	38.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.5 +0.6	+0.0 -27.4	+0.0	23.1	43.5	-20.4	Vert
63	66.200M	39.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +6.1 +0.4	+0.0 -27.5	+0.0	18.8	40.0	-21.2	Horiz
64	43.490M	33.7	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +12.0 +0.3	+0.0 -27.6	+0.0	18.6	40.0	-21.4	Horiz
65	240.020M	35.9	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.8 +0.9	+0.0 -27.5	+0.0	21.6	46.0	-24.4	Horiz

CKC Laboratories, Inc. Date: 6/2/2012 Time: 09:51:29 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 211 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/27/2012
Test Type: **Radiated Scan** Time: 09:17:11
Equipment: **5GHz Tri-Sector (17dBi)** Sequence#: 201
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10T
S/N: EMI 1

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (17dBi)*	Digital Path	G5RL10T	EMI 1

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities. receiver circuit is active
Radio 0, TX
Radio 1, OFF

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 12,12,12
802.11n: 13MCS HT20 2S,TX power setting= 12,12,12

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 14.5, 14.5, 14.5
802.11n: 6.5MCS HT20 1S, TX power setting= 14.5, 14.5, 14.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at the required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

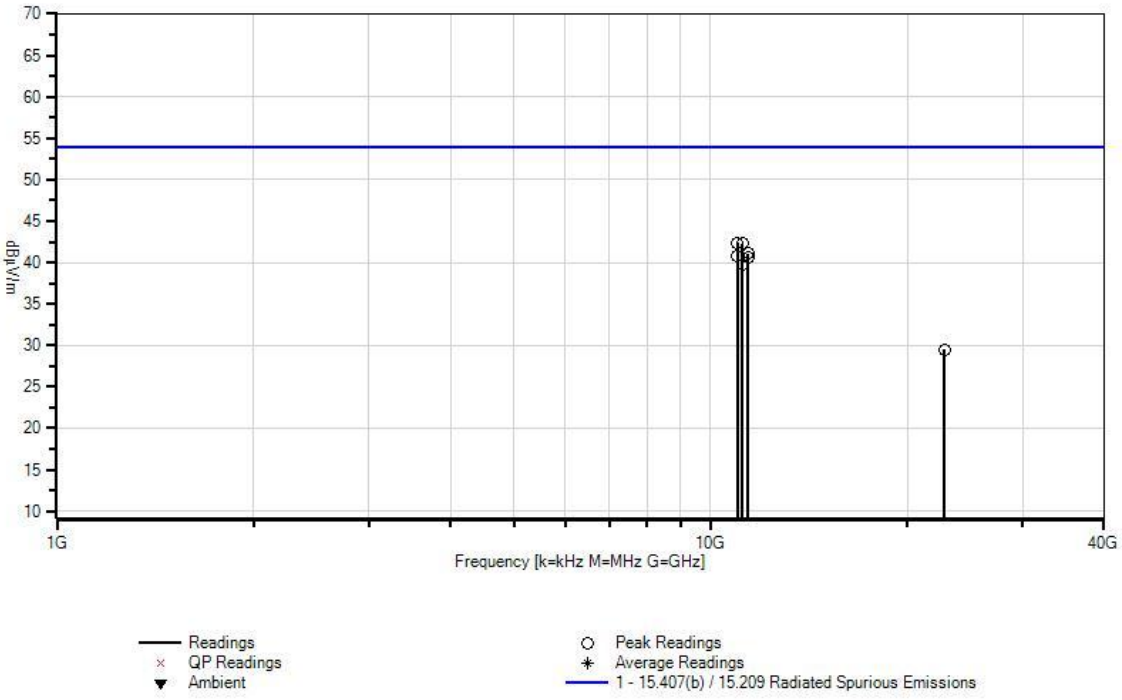
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11001.600 M	49.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.4	54.0	-11.6	Vert
2	11176.680 M	49.2	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	42.3	54.0	-11.7	Vert
3	11400.000 M	48.1	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	41.1	54.0	-12.9	Horiz
4	10988.400 M	48.1	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	40.8	54.0	-13.2	Horiz

5	11410.000 M	47.6	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	40.7	54.0	-13.3	Horiz
6	11180.591 M	46.7	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	39.8	54.0	-14.2	Horiz
7	22797.000 M	51.2	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	-9.5	29.5	54.0	-24.5	Horiz

CKC Laboratories, Inc. Date: 5/27/2012 Time: 09:17:11 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 201 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/29/2012
Test Type: **Radiated Scan** Time: 22:12:00
Equipment: **5GHz Sector (20 dBi)** Sequence#: 204
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10E
S/N: EMI 3

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Sector (20 dBi)*	Digital Path	G5RL10E	EMI 3

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
Vertical polarity of the antenna is connected to Card 1, Ant port 2
Horizontal polarity of the antenna is connected to Card 1, Ant port 0

Radio 0, OFF
Radio 1, TX

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11.5, 11.5, 11.5
802.11n: 13MCS HT20 2S,TX power setting = 11.5, 11.5, 11.5

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 10.5, 14.10.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12, 14 .8.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

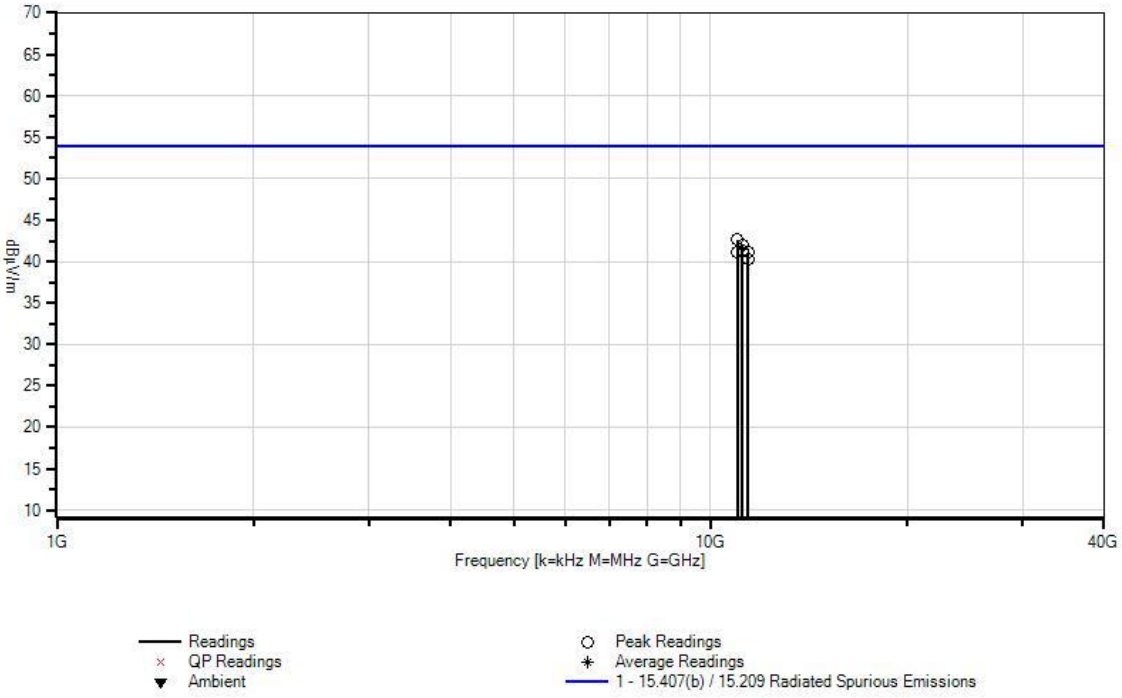
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11000.300 M	49.9	+0.0 +2.2	+39.4 -58.0	+2.3 +0.0	+6.8	+0.0	42.6	54.0	-11.4	Vert
2	11180.200 M	48.9	+0.0 +2.2	+39.1 -57.3	+2.3 +0.0	+6.8	+0.0	42.0	54.0	-12.0	Horiz
3	11181.400 M	48.2	+0.0 +2.2	+39.1 -57.3	+2.3 +0.0	+6.8	+0.0	41.3	54.0	-12.7	Horiz
4	10989.000 M	48.4	+0.0 +2.2	+39.4 -58.0	+2.3 +0.0	+6.8	+0.0	41.1	54.0	-12.9	Vert

5	11400.000 M	48.1	+0.0 +2.2	+38.8 -57.2	+2.3 +0.0	+6.9	+0.0	41.1	54.0	-12.9	Vert
6	11410.000 M	47.1	+0.0 +2.2	+38.8 -57.1	+2.3 +0.0	+6.9	+0.0	40.2	54.0	-13.8	Vert

CKC Laboratories, Inc. Date: 5/29/2012 Time: 22:12:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 1 Meter Sequence#: 204 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 16:30:00
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 207
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)
This data sheet is for the EUT transmitting via 11dBi Omni antenna connected to radio 0 (instance 1)

Freq = 5470-5725MHz

5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 17, 18.5, 18.5
802.11n: 13MCSHT20 2S,TX power setting= 17, 18.5, 17.5

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting= 17, 19, 16.5
802.11n: 6.5MCS HT20 1S, TX power setting= 16.5, 19, 16.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	22820.000 M Ave	64.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	52.1	54.0 10MHz 802.11a 24Mbps	-1.9	Horiz
2	22820.000 M Ave	63.6	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	51.4	54.0 10MHz 802.11n 13MCSHT202S	-2.6	Horiz
^	22820.000 M	77.5	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	65.3	54.0 10MHz 802.11a 24Mbps	+11.3	Horiz
^	22820.000 M	76.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	64.1	54.0 10MHz 802.11n 13MCSHT202S	+10.1	Horiz

5	22800.000	63.2	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	54.0	-3.0	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
	Ave		+4.3						20MHz 802.11a 24Mbps			
6	22800.000	62.9	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
	Ave		+4.3						20MHz 802.11n 6.5MCSHT201S			
^	22800.000	74.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.3	54.0	+8.3	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
			+4.3						20MHz 802.11a 24Mbps			
^	22800.000	72.8	+0.0	+0.0	+0.0	+0.0	+0.0	60.6	54.0	+6.6	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
			+4.3						20MHz 802.11n 6.5MCSHT201S			
9	11410.000	56.1	+0.0	+38.8	+2.3	+6.9	+0.0	49.2	54.0	-4.8	Horiz	
	M		+2.2	-57.1	+0.0	+0.0						
	Ave		+0.0						10MHz 24Mbps			
10	11180.000	55.3	+0.0	+39.1	+2.3	+6.8	+0.0	48.4	54.0	-5.6	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
	Ave		+0.0						10MHz 13MCSHT202S			
^	11180.000	68.1	+0.0	+39.1	+2.3	+6.8	+0.0	61.2	54.0	+7.2	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
			+0.0						10MHz 13MCSHT202S			
12	11398.000	55.3	+0.0	+38.8	+2.3	+6.9	+0.0	48.3	54.0	-5.7	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
	Ave		+0.0						20MHz 802.11n 6.5MCSHT201S			
^	11398.000	68.0	+0.0	+38.8	+2.3	+6.9	+0.0	61.0	54.0	+7.0	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
			+0.0						20MHz 802.11n 6.5MCSHT201S			
14	11399.700	55.0	+0.0	+38.8	+2.3	+6.9	+0.0	48.0	54.0	-6.0	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
	Ave		+0.0						20MHz 6.5MCSHT201S			
^	11399.700	67.6	+0.0	+38.8	+2.3	+6.9	+0.0	60.6	54.0	+6.6	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
			+0.0						20MHz 6.5MCSHT201S			
16	22360.000	59.8	+0.0	+0.0	+0.0	+0.0	+0.0	47.9	54.0	-6.1	Horiz	
	M		+0.0	+0.0	+0.0	-16.2						
	Ave		+4.3						10MHz 802.11a 24Mbps			
17	11184.200	54.4	+0.0	+39.1	+2.3	+6.8	+0.0	47.5	54.0	-6.5	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
	Ave		+0.0						20MHz 6.5MCSHT201S			

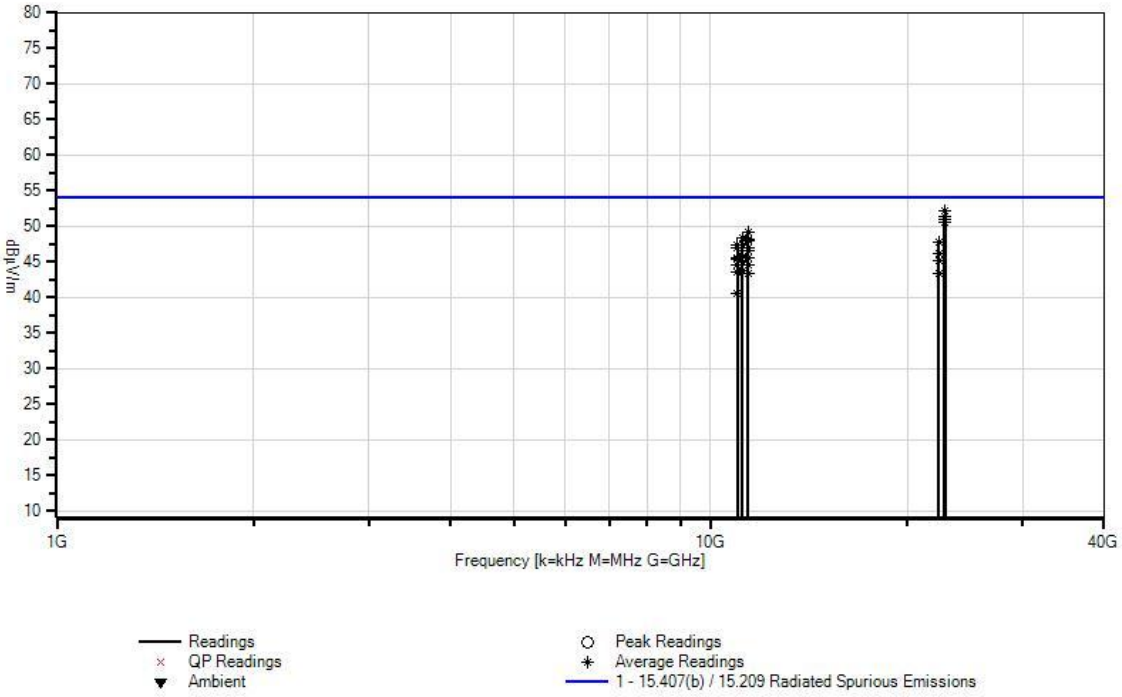
^	11184.200 M	67.5	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	60.6	54.0 20MHz 6.5MCSHT201S	+6.6	Horiz
19	11180.000 M Ave	54.4	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	47.5	54.0 10MHz 13MCSHT202S	-6.5	Vert
20	10998.600 M Ave	54.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	47.3	54.0 20MHz 6.5MCSHT201S	-6.7	Horiz
^	10998.600 M	66.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	59.5	54.0 20MHz 6.5MCSHT201S	+5.5	Horiz
22	10989.200 M Ave	54.4	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	47.1	54.0 10MHz 24Mbps	-6.9	Vert
^	10989.200 M	66.1	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	58.8	54.0 10MHz 24Mbps	+4.8	Vert
24	11397.600 M Ave	53.9	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	46.9	54.0 20MHz 802.11n 6.5MCSHT201S	-7.1	Vert
^	11397.600 M	67.6	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	60.6	54.0 20MHz 802.11n 6.5MCSHT201S	+6.6	Vert
26	10990.900 M Ave	54.2	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	46.9	54.0 10MHz 13MCSHT202S	-7.1	Vert
^	10990.900 M	66.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	59.3	54.0 10MHz 13MCSHT202S	+5.3	Vert
28	11410.000 M Ave	53.4	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	46.5	54.0 10MHz 13MCSHT202S	-7.5	Horiz
^	11410.000 M	67.6	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	60.7	54.0 10MHz 24Mbps	+6.7	Horiz
^	11410.000 M	65.7	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	58.8	54.0 10MHz 13MCSHT202S	+4.8	Horiz

31	22360.000 M Ave	58.2	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	46.3	54.0 10MHz 802.11n 13MCSHT202S	-7.7	Horiz
32	11180.000 M Ave	52.6	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.7	54.0 10MHz 24Mbps	-8.3	Vert
33	11178.950 M Ave	52.6	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.7	54.0 10MHz 24Mbps	-8.3	Horiz
^	11178.950 M	65.3	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	58.4	54.0 10MHz 24Mbps	+4.4	Horiz
35	10998.800 M Ave	52.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	45.6	54.0 20MHz 802.11n 6.5MCSHT201S	-8.4	Horiz
^	10998.800 M	64.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.4	54.0 20MHz 802.11n 6.5MCSHT201S	+3.4	Horiz
37	11410.000 M Ave	52.5	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	45.6	54.0 10MHz 24Mbps	-8.4	Vert
38	10989.200 M Ave	52.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	45.5	54.0 10MHz 24Mbps	-8.5	Horiz
39	22360.000 M Ave	57.1	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	45.2	54.0 20MHz 802.11a 24Mbps	-8.8	Horiz
40	11180.000 M Ave	52.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.1	54.0 20MHz 802.11n 6.5MCSHT201S	-8.9	Vert
41	11180.000 M Ave	51.9	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.0	54.0 20MHz 6.5MCSHT201S	-9.0	Vert
^	11180.000 M	67.7	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	60.8	54.0 10MHz 13MCSHT202S	+6.8	Vert
^	11180.000 M	66.4	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	59.5	54.0 20MHz 802.11n 6.5MCSHT201S	+5.5	Vert
^	11180.000 M	64.8	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.9	54.0 10MHz 24Mbps	+3.9	Vert

^	11180.000 M	64.1	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.2	54.0 20MHz 6.5MCSHT201S	+3.2	Vert
46	11400.100 M Ave	51.5	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	44.5	54.0 20MHz 6.5MCSHT201S	-9.5	Vert
^	11400.100 M	64.6	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	57.6	54.0 20MHz 6.5MCSHT201S	+3.6	Vert
48	10989.200 M Ave	51.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	44.5	54.0 10MHz 13MCSHT202S	-9.5	Horiz
^	10989.200 M	64.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.4	54.0 10MHz 24Mbps	+3.4	Horiz
^	10989.200 M	63.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	56.3	54.0 10MHz 13MCSHT202S	+2.3	Horiz
51	11178.200 M Ave	50.8	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	43.9	54.0 20MHz 802.11n 6.5MCSHT201S	-10.1	Horiz
^	11178.200 M	64.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.1	54.0 20MHz 802.11n 6.5MCSHT201S	+3.1	Horiz
53	10995.500 M Ave	50.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	43.6	54.0 20MHz 802.11n 6.5MCSHT201S	-10.4	Vert
^	10995.500 M	64.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.3	54.0 20MHz 802.11n 6.5MCSHT201S	+3.3	Vert
55	22360.000 M Ave	55.4	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	43.5	54.0 20MHz 802.11n 6.5MCSHT202S	-10.5	Horiz
^	22360.000 M	72.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	60.4	54.0 10MHz 802.11a 24Mbps	+6.4	Horiz
^	22360.000 M	70.4	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	58.5	54.0 20MHz 802.11n 6.5MCSFT201S	+4.5	Horiz

^	22360.000 M	69.5	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	57.6	54.0 20MHz 802.11a 24Mbps	+3.6	Horiz
^	22360.000 M	69.1	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	57.2	54.0 10MHz 802.11n 13MCSHT202S	+3.2	Horiz
60	11410.000 M Ave	50.2	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	43.3	54.0 10MHz 13MCSHT202S	-10.7	Vert
^	11410.000 M	64.3	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	57.4	54.0 10MHz 24Mbps	+3.4	Vert
^	11410.000 M	62.7	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	55.8	54.0 10MHz 13MCSHT202S	+1.8	Vert
63	10994.950 M Ave	47.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	40.6	54.0 20MHz 6.5MCSHT201S	-13.4	Vert
^	10994.950 M	61.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	54.3	54.0 20MHz 6.5MCSHT201S	+0.3	Vert

CKC Laboratories, Inc. Date: 6/1/2012 Time: 16:30:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 207 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/3/2012
Test Type: **Radiated Scan** Time: 09:19:51
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 210
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	AN00730	Preamp		1/31/2011	1/31/2013
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2)

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11, 11, 11
802.11n: 13MCS HT20 2S,TX power setting= 11, 11, 11

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 13.5, 13.5, 12.5
802.11n: 6.5MCS HT20 1S, TX power setting= 13.5, 13.5, 11

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

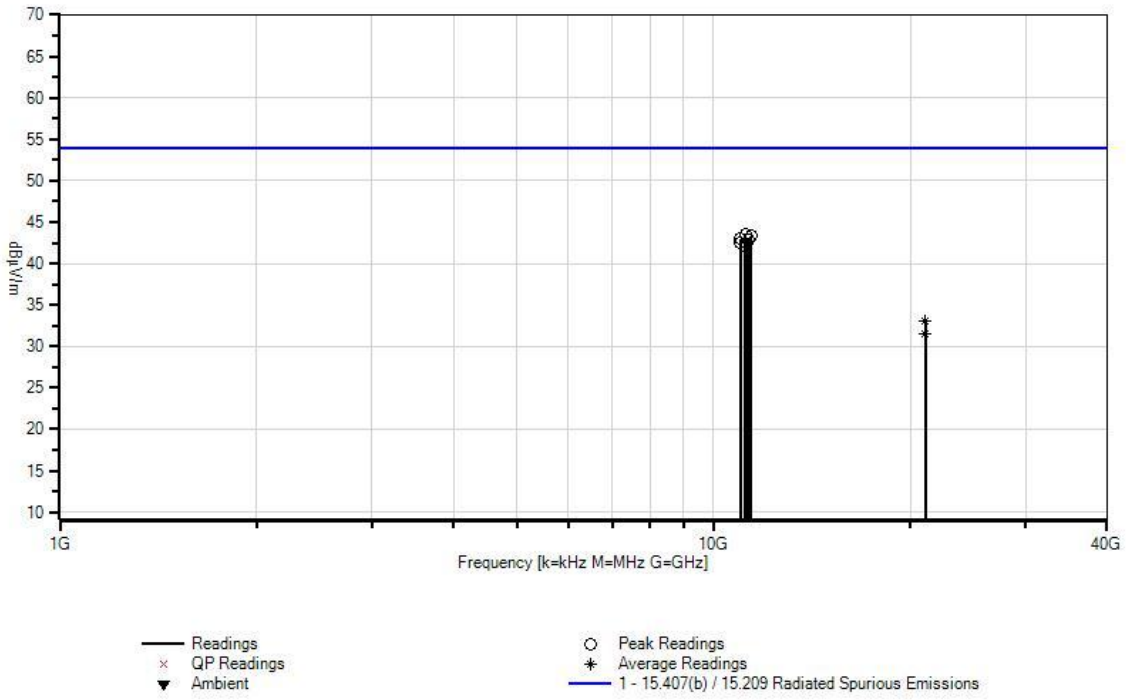
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

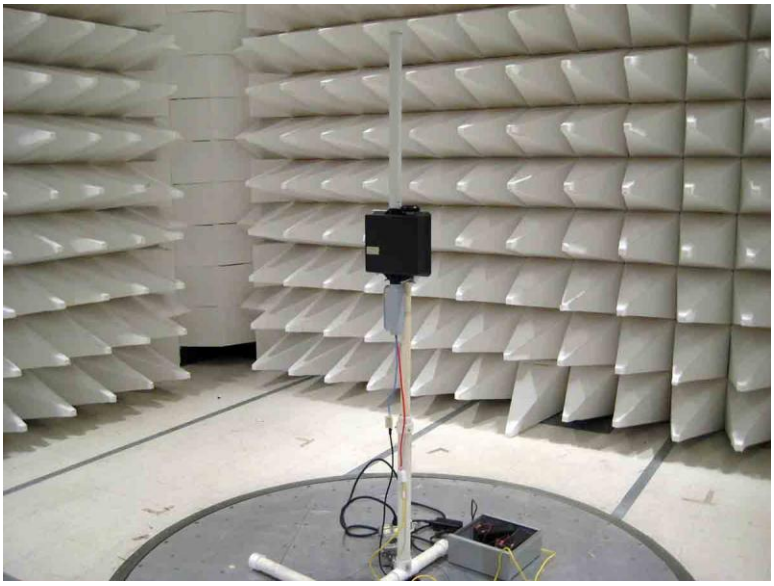
#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11189.000 M	50.3	+0.0 +2.2 +0.0	+39.1 -57.2	+2.3 +0.0	+6.8 +0.0	+0.0	43.5	54.0	-10.5	Vert
2	11407.900 M	50.2	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	43.3	54.0	-10.7	Vert
3	10990.000 M	50.2	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.9	54.0	-11.1	Vert
4	11290.000 M	49.6	+0.0 +2.2 +0.0	+39.0 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	42.8	54.0	-11.2	Horiz

5	11000.000 M	49.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.4	54.0	-11.6	Horiz
6	11180.000 M	49.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	42.1	54.0	-11.9	Horiz
7	21104.000 M Ave	44.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	33.1	54.0	-20.9	Vert
^	21104.000 M	57.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	46.1	54.0	-7.9	Vert
9	21104.000 M Ave	42.5	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	31.5	54.0	-22.5	Horiz
^	21104.000 M	56.6	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	45.6	54.0	-8.4	Horiz

CKC Laboratories, Inc. Date: 6/3/2012 Time: 09:19:51 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 210 Vert
UNII Bands. 20MHz Channel width.

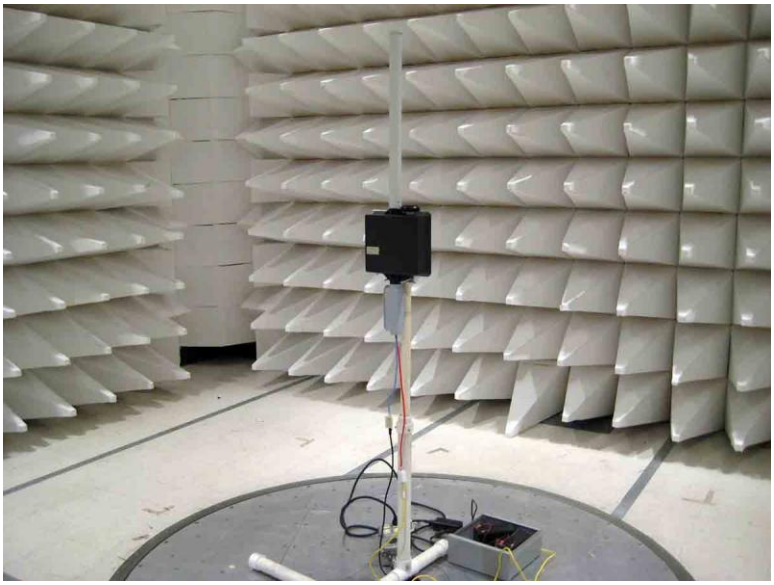


Test Setup Photos

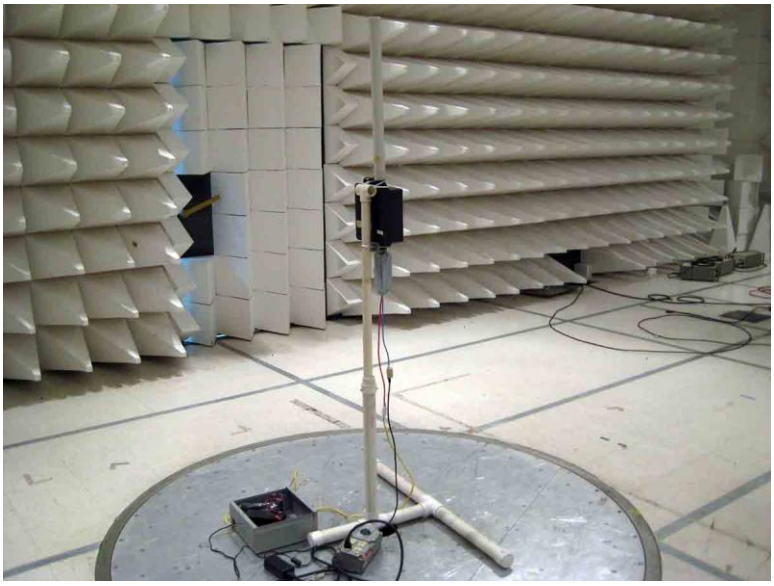


17dBi Sector

17dBi Sector

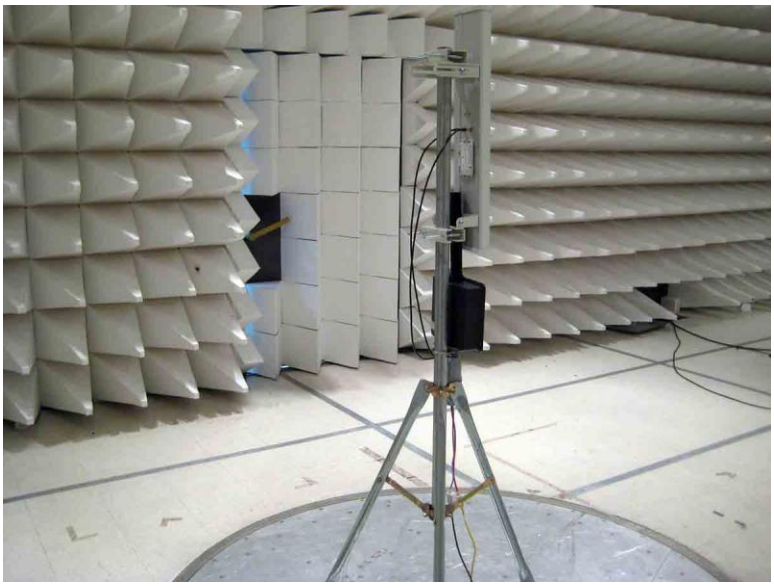


18dBi, 11dBi



18dBi, 11dBi

20dBi Sector



20dBi Sector

15.407(b)(6) Unwanted Emission Limits -Conducted

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer:	**Digital Path**		
Specification:	**15.207 AC Mains - Average**		
Work Order #:	**92682**	Date:	6/3/2012
Test Type:	**Conducted Emissions**	Time:	6:49:37 PM
Equipment:	**5GHz Panel (18dBi) + Omni (11dBi)**	Sequence#:	212
Manufacturer:	Digital Path	Tested By:	E. Wong
Model:	G5RL10G		110V 60Hz
S/N:	EMI 2		

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP00081	Attenuator	PE7002-10	5/13/2011	5/13/2013
T2	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T5	AN00494	50uH LISN-Loss L1 (L) Black (dB)	3816/NM	3/29/2011	3/29/2013
	AN00494	50uH LISN-Loss L2 (N) White (dB)	3816/NM	3/29/2011	3/29/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2
Power Supply	Condor	STD-2427P	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities.
11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)
This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2).
Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

Freq: 5590MHz
BW= 10MHz
802.11a: 24 Mbps, TX power setting= 22

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

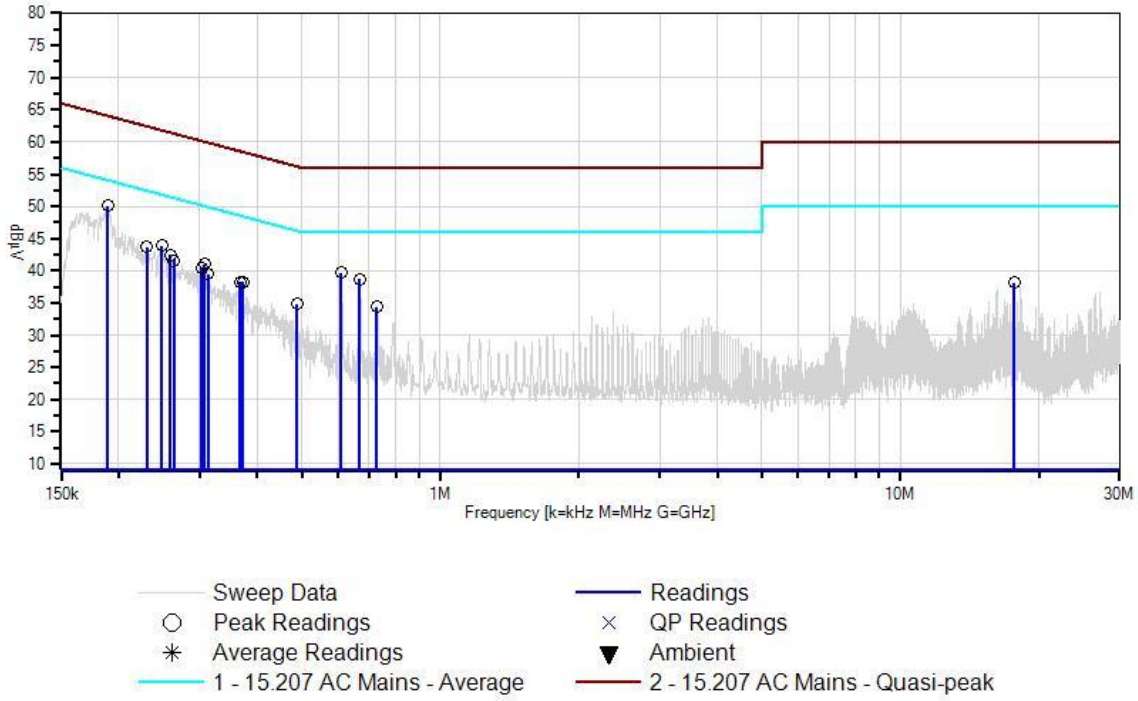
Frequency range of measurement = 150kHz- 30MHz.
150 kHz-30 MHz; RBW=9 kHz, VBW=9kHz

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Lead: Black

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	189.269k	39.9	+9.8 +0.1	+0.3	+0.0	+0.0	+0.0	50.1	54.1	-4.0	Black
2	608.140k	29.6	+9.8 +0.1	+0.2	+0.0	+0.0	+0.0	39.7	46.0	-6.3	Black
3	668.498k	28.7	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	38.7	46.0	-7.3	Black
4	248.173k	34.0	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	43.9	51.8	-7.9	Black
5	229.993k	33.8	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	43.7	52.4	-8.7	Black
6	307.076k	31.1	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	41.0	50.0	-9.0	Black
7	259.081k	32.5	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	42.4	51.5	-9.1	Black
8	303.440k	30.5	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	40.4	50.1	-9.7	Black
9	263.444k	31.7	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	41.6	51.3	-9.7	Black
10	372.525k	28.4	+9.7 +0.1	+0.1	+0.0	+0.0	+0.0	38.3	48.4	-10.1	Black
11	312.894k	29.6	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	39.5	49.9	-10.4	Black
12	367.435k	28.3	+9.7 +0.1	+0.1	+0.0	+0.0	+0.0	38.2	48.6	-10.4	Black
13	488.878k	24.9	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	34.8	46.2	-11.4	Black
14	728.856k	24.4	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	34.4	46.0	-11.6	Black
15	17.697M	28.0	+9.7 +0.0	+0.1	+0.2	+0.1	+0.0	38.1	50.0	-11.9	Black

CKC Laboratories, Inc. Date: 6/3/2012 Time: 6:49:37 PM Digital Path WO#: 92682
15.207 AC Mains - Average Test Lead: Black 110V 60Hz Sequence#: 212 Black
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.107 AC Mains Class B - Average**
Work Order #: **92682** Date: 6/3/2012
Test Type: **Conducted Emissions** Time: 18:57:41
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 213
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G 110V 60Hz
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T1	ANP00081	Attenuator	PE7002-10	5/13/2011	5/13/2013
T2	ANP05258	High Pass Filter	HE9615-150K-50-720B	12/2/2010	12/2/2012
T3	ANP05440	Cable		3/7/2011	3/7/2013
T4	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	AN00494	50uH LISN-Loss L1 (L) Black (dB)	3816/NM	3/29/2011	3/29/2013
T5	AN00494	50uH LISN-Loss L2 (N) White (dB)	3816/NM	3/29/2011	3/29/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2
Power Supply	Condor	STD-2427P	NA

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities.
11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2).
Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

Freq: 5590MHz
BW= 10MHz
802.11a: 24 Mbps, TX power setting= 22

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

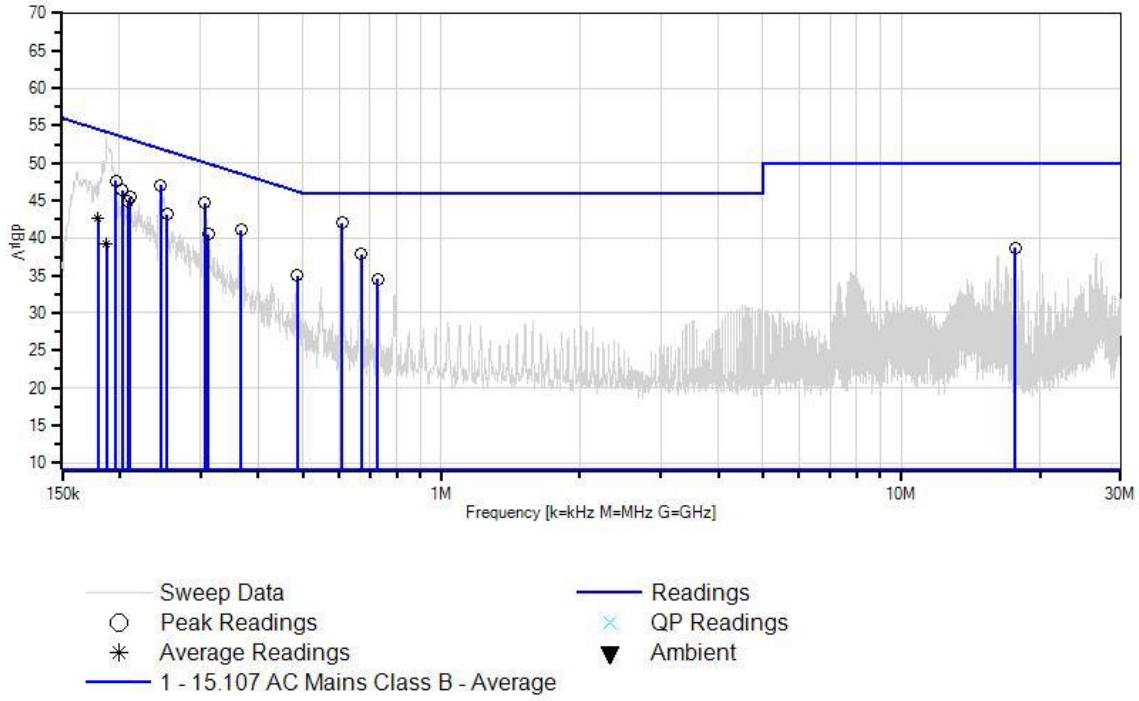
Frequency range of measurement = 150kHz- 30MHz.
150 kHz-30 MHz; RBW=9 kHz, VBW=9kHz

Ext Attn: 0 dB

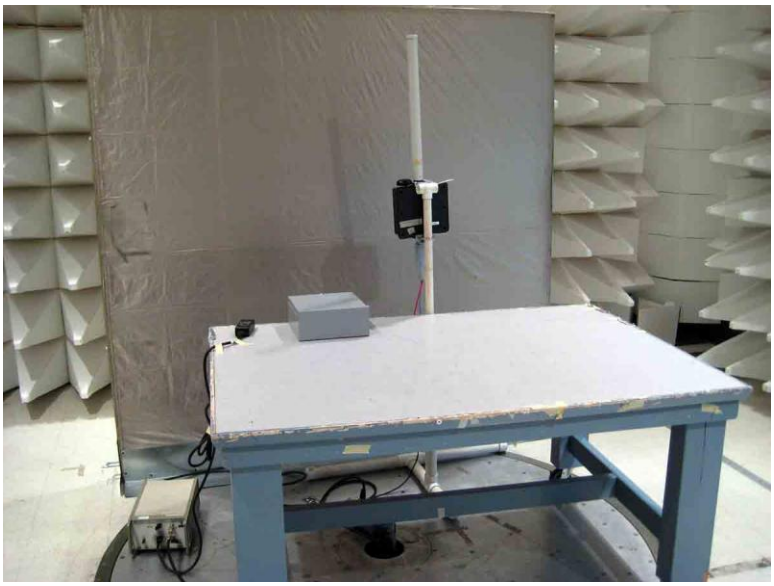
Measurement Data: Reading listed by margin. Test Lead: White

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	608.140k	32.0	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	42.0	46.0	-4.0	White
2	245.991k	37.2	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	47.1	51.9	-4.8	White
3	306.349k	34.7	+9.8 +0.1	+0.1	+0.0	+0.0	+0.0	44.7	50.1	-5.4	White
4	196.541k	37.6	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	47.6	53.8	-6.2	White
5	202.359k	36.5	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	46.4	53.5	-7.1	White
6	366.707k	31.2	+9.7 +0.1	+0.1	+0.0	+0.0	+0.0	41.1	48.6	-7.5	White
7	211.085k	35.5	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	45.4	53.2	-7.8	White
8	669.952k	27.8	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	37.8	46.0	-8.2	White
9	208.176k	35.0	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	44.9	53.3	-8.4	White
10	253.263k	33.3	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	43.2	51.6	-8.4	White
11	312.167k	30.5	+9.8 +0.1	+0.1	+0.0	+0.0	+0.0	40.5	49.9	-9.4	White
12	486.696k	25.1	+9.8 +0.0	+0.1	+0.0	+0.0	+0.0	35.0	46.2	-11.2	White
13	17.697M	28.6	+9.7 +0.0	+0.1	+0.2	+0.1	+0.0	38.7	50.0	-11.3	White
14	728.856k	24.5	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	34.5	46.0	-11.5	White
15	179.505k Ave	32.4	+9.8 +0.0	+0.4	+0.0	+0.0	+0.0	42.6	54.5	-11.9	White
16	187.088k Ave	29.2	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	39.2	54.2	-15.0	White
^	187.088k	43.4	+9.8 +0.0	+0.2	+0.0	+0.0	+0.0	53.4	54.2	-0.8	White

CKC Laboratories, Inc. Date: 6/3/2012 Time: 18:57:41 Digital Path WO#: 92682
15.107 AC Mains Class B - Average Test Lead: White 110V 60Hz Sequence#: 213 White
UNII Bands. 20MHz Channel width.



Test Setup Photos



15.407(b)(6) Unwanted Emission Limits -Radiated

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/2/2012
Test Type: **Radiated Scan** Time: 09:51:29
Equipment: **5GHz Panel (18dBi) + Omni (11dBi),** Sequence#: 211
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G,
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T7	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
T8	AN00730	Preamp		1/31/2011	1/31/2013
T9	ANP05299	Cable	RG214	3/6/2011	3/6/2013
T10	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
T11	ANP05440	Cable		3/7/2011	3/7/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. . Representing the worst case configuration for the product series, Receiver circuit and GPS receiver are active.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2). Recoded data is from the non-intentional radiation of the product.

Freq: 5590MHz
BW= 10MHz
802.11a: 24 Mbps, TX power setting= 22

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7	T8					
			T9	T10	T11						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	32.597M	48.7	+0.0	+0.0	+0.0	+0.0	+0.0	39.6	40.0	-0.4	Vert
	QP		+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
^	32.597M	49.6	+0.0	+0.0	+0.0	+0.0	+0.0	40.5	40.0	+0.5	Vert
			+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						
3	51.817M	57.8	+0.0	+0.0	+0.0	+0.0	+0.0	39.2	40.0	-0.8	Vert
	QP		+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						
^	51.817M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	41.4	40.0	+1.4	Vert
			+0.0	+0.0	+8.3	-27.5					
			+0.0	+0.2	+0.4						

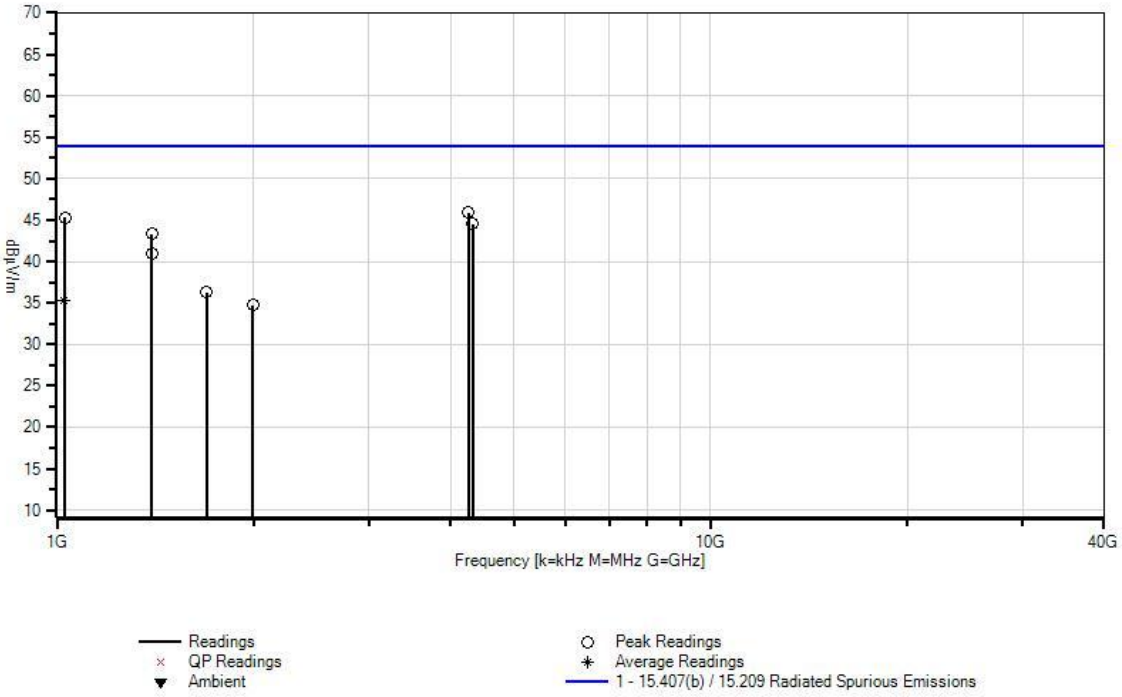
5	765.509M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Vert
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.509M	50.9	+0.0	+0.0	+0.0	+0.0	+0.0	47.6	46.0	+1.6	Vert
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
7	30.627M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.0	40.0	-1.0	Vert
	QP		+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
^	30.627M	51.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.8	40.0	+1.8	Vert
			+0.0	+0.0	+17.9	-27.6					
			+0.0	+0.1	+0.3						
9	765.572M	48.3	+0.0	+0.0	+0.0	+0.0	+0.0	45.0	46.0	-1.0	Horiz
	QP		+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
^	765.572M	50.6	+0.0	+0.0	+0.0	+0.0	+0.0	47.3	46.0	+1.3	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
11	191.995M	59.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.1	43.5	-1.4	Vert
	QP		+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
^	191.995M	60.0	+0.0	+0.0	+0.0	+0.0	+0.0	42.8	43.5	-0.7	Vert
			+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
13	761.572M	47.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Horiz
	QP		+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
^	761.572M	49.8	+0.0	+0.0	+0.0	+0.0	+0.0	46.4	46.0	+0.4	Horiz
			+0.0	+0.0	+21.1	-27.3					
			+0.2	+0.9	+1.7						
15	816.009M	45.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.9	46.0	-3.1	Vert
	QP		+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
^	816.009M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	44.4	46.0	-1.6	Vert
			+0.0	+0.0	+21.9	-27.2					
			+0.2	+0.9	+1.8						
17	43.795M	51.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.2	40.0	-3.8	Vert
	QP		+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
^	43.795M	54.2	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	40.0	-1.1	Vert
			+0.0	+0.0	+11.8	-27.6					
			+0.0	+0.2	+0.3						
19	720.009M	46.3	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Vert
	QP		+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
^	720.009M	46.5	+0.0	+0.0	+0.0	+0.0	+0.0	42.2	46.0	-3.8	Vert
			+0.0	+0.0	+20.2	-27.2					
			+0.2	+0.8	+1.7						
21	695.350M	46.8	+0.0	+0.0	+0.0	+0.0	+0.0	42.0	46.0	-4.0	Horiz
			+0.0	+0.0	+19.8	-27.2					
			+0.2	+0.8	+1.6						

22	863.999M	44.2	+0.0	+0.0	+0.0	+0.0	+0.0	41.7	46.0	-4.3	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.8						
23	898.460M	44.1	+0.0	+0.0	+0.0	+0.0	+0.0	41.6	46.0	-4.4	Vert
			+0.0	+0.0	+21.8	-27.4					
			+0.2	+1.0	+1.9						
24	912.000M	43.8	+0.0	+0.0	+0.0	+0.0	+0.0	41.2	46.0	-4.8	Vert
			+0.0	+0.0	+21.8	-27.5					
			+0.2	+1.0	+1.9						
25	65.757M	55.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	40.0	-5.2	Vert
	QP		+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
^	65.757M	57.5	+0.0	+0.0	+0.0	+0.0	+0.0	36.7	40.0	-3.3	Vert
			+0.0	+0.0	+6.1	-27.5					
			+0.0	+0.2	+0.4						
27	39.480M	47.3	+0.0	+0.0	+0.0	+0.0	+0.0	34.5	40.0	-5.5	Vert
			+0.0	+0.0	+14.3	-27.6					
			+0.0	+0.2	+0.3						
28	960.000M	42.3	+0.0	+0.0	+0.0	+0.0	+0.0	39.9	46.0	-6.1	Vert
			+0.0	+0.0	+22.1	-27.8					
			+0.3	+1.0	+2.0						
29	165.607M	52.9	+0.0	+0.0	+0.0	+0.0	+0.0	36.6	43.5	-6.9	Vert
	QP		+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
^	165.607M	54.6	+0.0	+0.0	+0.0	+0.0	+0.0	38.3	43.5	-5.2	Vert
			+0.0	+0.0	+10.1	-27.5					
			+0.1	+0.3	+0.7						
31	287.995M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.9	46.0	-7.1	Vert
			+0.0	+0.0	+12.9	-27.5					
			+0.1	+0.5	+1.0						
32	875.010M	40.9	+0.0	+0.0	+0.0	+0.0	+0.0	38.5	46.0	-7.5	Vert
			+0.0	+0.0	+21.8	-27.3					
			+0.2	+1.0	+1.9						
33	794.590M	41.0	+0.0	+0.0	+0.0	+0.0	+0.0	38.4	46.0	-7.6	Vert
			+0.0	+0.0	+21.8	-27.2					
			+0.2	+0.9	+1.7						
34	4267.000M	66.2	+0.0	+32.7	+1.4	+3.9	+0.0	45.9	54.0	-8.1	Vert
			+1.4	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
35	1030.500M	78.3	+0.0	+23.5	+0.7	+1.8	+0.0	45.3	54.0	-8.7	Horiz
			+0.7	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
36	765.450M	40.4	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Horiz
			+0.0	+0.0	+21.2	-27.3					
			+0.2	+0.9	+1.7						
37	231.780M	51.9	+0.0	+0.0	+0.0	+0.0	+0.0	37.1	46.0	-8.9	Vert
			+0.0	+0.0	+11.3	-27.5					
			+0.1	+0.4	+0.9						
38	88.850M	52.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.6	43.5	-8.9	Vert
			+0.0	+0.0	+8.7	-27.4					
			+0.0	+0.2	+0.5						

39	528.000M	43.8	+0.0	+0.0	+0.0	+0.0	+0.0	37.0	46.0	-9.0	Horiz
			+0.0	+0.0	+18.2	-27.3					
			+0.2	+0.7	+1.4						
40	4324.000M	64.9	+0.0	+32.5	+1.4	+3.9	+0.0	44.5	54.0	-9.5	Horiz
			+1.4	-59.6	+0.0	+0.0					
			+0.0	+0.0	+0.0						
41	695.430M	40.7	+0.0	+0.0	+0.0	+0.0	+0.0	35.9	46.0	-10.1	Vert
			+0.0	+0.0	+19.8	-27.2					
			+0.2	+0.8	+1.6						
42	499.180M	43.2	+0.0	+0.0	+0.0	+0.0	+0.0	35.8	46.0	-10.2	Vert
			+0.0	+0.0	+17.8	-27.3					
			+0.2	+0.6	+1.3						
43	299.520M	48.4	+0.0	+0.0	+0.0	+0.0	+0.0	35.7	46.0	-10.3	Vert
			+0.0	+0.0	+13.1	-27.4					
			+0.1	+0.5	+1.0						
44	563.030M	41.8	+0.0	+0.0	+0.0	+0.0	+0.0	35.5	46.0	-10.5	Vert
			+0.0	+0.0	+18.7	-27.3					
			+0.2	+0.7	+1.4						
45	1397.000M	75.3	+0.0	+24.0	+0.8	+2.1	+0.0	43.3	54.0	-10.7	Horiz
			+0.8	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
46	336.020M	46.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.8	46.0	-11.2	Vert
			+0.0	+0.0	+14.0	-27.5					
			+0.1	+0.5	+1.1						
47	629.230M	40.1	+0.0	+0.0	+0.0	+0.0	+0.0	34.7	46.0	-11.3	Vert
			+0.0	+0.0	+19.3	-27.1					
			+0.2	+0.7	+1.5						
48	239.980M	48.6	+0.0	+0.0	+0.0	+0.0	+0.0	34.3	46.0	-11.7	Vert
			+0.0	+0.0	+11.8	-27.5					
			+0.1	+0.4	+0.9						
49	192.000M	48.1	+0.0	+0.0	+0.0	+0.0	+0.0	30.9	43.5	-12.6	Horiz
			+0.0	+0.0	+9.0	-27.5					
			+0.1	+0.4	+0.8						
50	106.730M	46.7	+0.0	+0.0	+0.0	+0.0	+0.0	30.7	43.5	-12.8	Vert
			+0.0	+0.0	+10.5	-27.5					
			+0.1	+0.3	+0.6						
51	1396.000M	72.9	+0.0	+24.0	+0.8	+2.1	+0.0	40.9	54.0	-13.1	Vert
			+0.8	-59.7	+0.0	+0.0					
			+0.0	+0.0	+0.0						
52	96.000M	47.6	+0.0	+0.0	+0.0	+0.0	+0.0	30.2	43.5	-13.3	Vert
			+0.0	+0.0	+9.5	-27.6					
			+0.0	+0.2	+0.5						
53	399.200M	41.9	+0.0	+0.0	+0.0	+0.0	+0.0	31.9	46.0	-14.1	Horiz
			+0.0	+0.0	+15.5	-27.4					
			+0.1	+0.6	+1.2						
54	624.000M	35.9	+0.0	+0.0	+0.0	+0.0	+0.0	30.5	46.0	-15.5	Horiz
			+0.0	+0.0	+19.3	-27.1					
			+0.2	+0.7	+1.5						
55	32.610M	33.3	+0.0	+0.0	+0.0	+0.0	+0.0	24.2	40.0	-15.8	Horiz
			+0.0	+0.0	+18.1	-27.6					
			+0.0	+0.1	+0.3						

56	1696.000M	66.6	+0.0 +0.9 +0.0	+25.1 -59.5 +0.0	+0.9 +0.0 +0.0	+2.3 +0.0	+0.0	36.3	54.0	-17.7	Vert
57	232.900M	43.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.3 +0.9	+0.0 -27.5	+0.0	28.2	46.0	-17.8	Horiz
58	144.010M	40.3	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.4 +0.7	+0.0 -27.4	+0.0	25.4	43.5	-18.1	Vert
59	1026.600M Ave	68.4	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	35.3	54.0	-18.7	Vert
^	1026.600M	83.9	+0.0 +0.7 +0.0	+23.4 -59.7 +0.0	+0.7 +0.0 +0.0	+1.8 +0.0	+0.0	50.8	54.0	-3.2	Vert
61	1993.000M	63.3	+0.0 +0.9 +0.0	+26.5 -59.5 +0.0	+1.0 +0.0 +0.0	+2.5 +0.0	+0.0	34.7	54.0	-19.3	Vert
62	121.030M	38.0	+0.0 +0.0 +0.1	+0.0 +0.0 +0.3	+0.0 +11.5 +0.6	+0.0 -27.4	+0.0	23.1	43.5	-20.4	Vert
63	66.200M	39.6	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +6.1 +0.4	+0.0 -27.5	+0.0	18.8	40.0	-21.2	Horiz
64	43.490M	33.7	+0.0 +0.0 +0.0	+0.0 +0.0 +0.2	+0.0 +12.0 +0.3	+0.0 -27.6	+0.0	18.6	40.0	-21.4	Horiz
65	240.020M	35.9	+0.0 +0.0 +0.1	+0.0 +0.0 +0.4	+0.0 +11.8 +0.9	+0.0 -27.5	+0.0	21.6	46.0	-24.4	Horiz

CKC Laboratories, Inc. Date: 6/2/2012 Time: 09:51:29 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 211 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/27/2012
Test Type: **Radiated Scan** Time: 08:11:46
Equipment: **5GHz Tri-Sector (17dBi)** Sequence#: 200
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10T
S/N: EMI 1

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (17dBi)*	Digital Path	G5RL10T	EMI 1

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
Radio 0, TX
Radio 1, OFF

5250-5350HHz
Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11,11,11
802.11n: 13MCSHT20 2S,TX power setting= 11,11,11

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting= 12.5,13.5,13.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12, 13.5,12

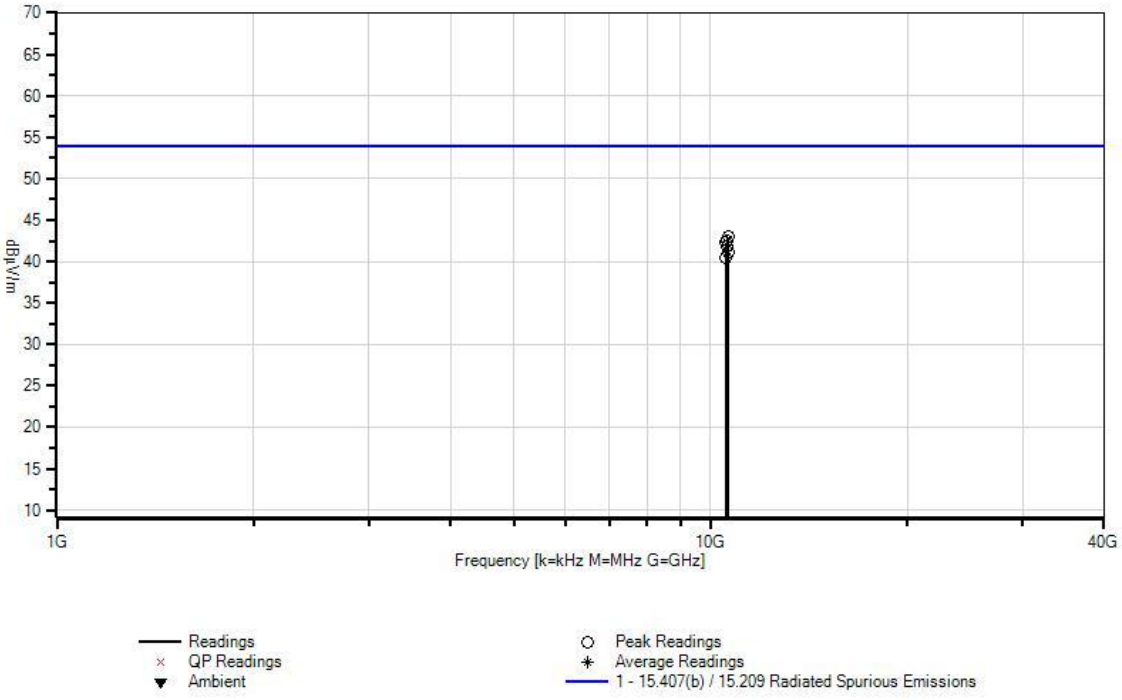
Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa
No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.
Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.
Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3 T7	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10641.000 M	51.3	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	43.0	54.0	-11.0	Horiz
2	10602.800 M	51.2	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	42.5	54.0	-11.5	Horiz
3	10546.000 M	51.1	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	42.3	54.0	-11.7	Vert
4	10574.600 M	50.9	+0.0 +2.1	+39.3 -59.4	+2.3 +0.0	+6.7	+0.0	41.9	54.0	-12.1	Horiz
5	10640.000 M	49.4	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	41.1	54.0	-12.9	Horiz
6	10551.000 M	49.2	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	40.4	54.0	-13.6	Vert

CKC Laboratories, Inc. Date: 5/27/2012 Time: 08:11:46 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 200 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/27/2012
Test Type: **Radiated Scan** Time: 09:17:11
Equipment: **5GHz Tri-Sector (17dBi)** Sequence#: 201
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10T
S/N: EMI 1

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (17dBi)*	Digital Path	G5RL10T	EMI 1

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.
The Remote laptop is running test software to exercise the intended functionalities. receiver circuit is active
Radio 0, TX
Radio 1, OFF

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 12,12,12
802.11n: 13MCS HT20 2S,TX power setting= 12,12,12

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 14.5, 14.5, 14.5
802.11n: 6.5MCS HT20 1S, TX power setting= 14.5, 14.5, 14.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at the required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz; 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.
Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

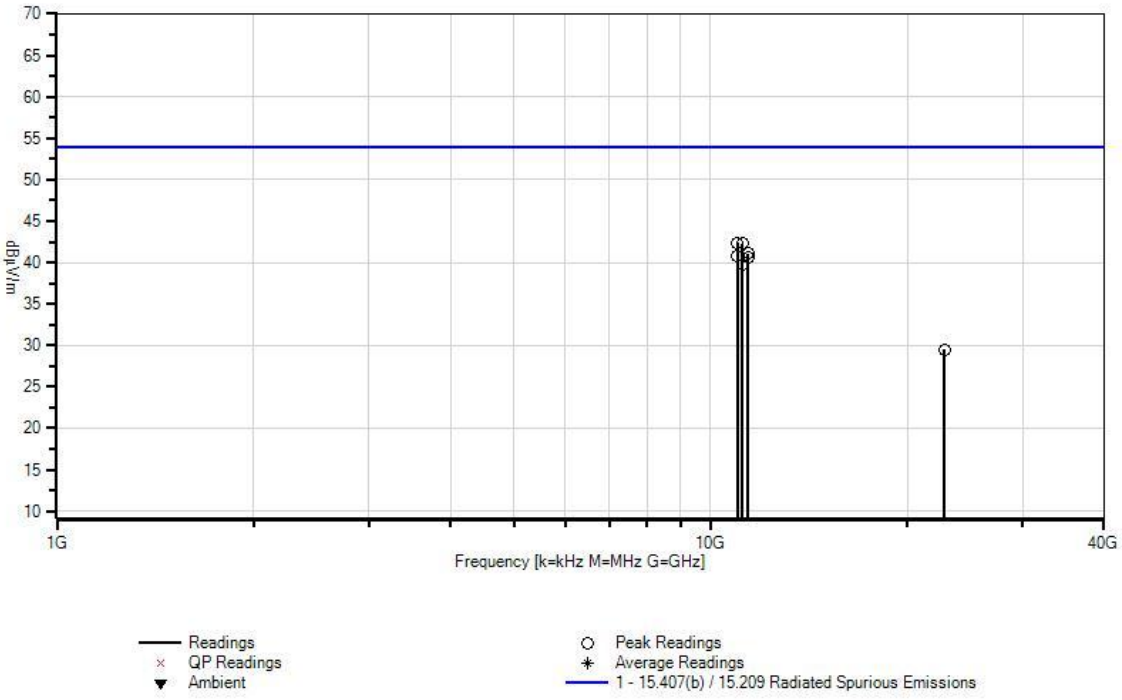
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11001.600 M	49.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.4	54.0	-11.6	Vert
2	11176.680 M	49.2	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	42.3	54.0	-11.7	Vert
3	11400.000 M	48.1	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	41.1	54.0	-12.9	Horiz
4	10988.400 M	48.1	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	40.8	54.0	-13.2	Horiz

5	11410.000 M	47.6	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	40.7	54.0	-13.3	Horiz
6	11180.591 M	46.7	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	39.8	54.0	-14.2	Horiz
7	22797.000 M	51.2	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	-9.5	29.5	54.0	-24.5	Horiz

CKC Laboratories, Inc. Date: 5/27/2012 Time: 09:17:11 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 201 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/29/2012
Test Type: **Radiated Scan** Time: 21:45:00
Equipment: **5GHz Tri-Sector (20 dBi)** Sequence#: 203
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10E
S/N: EMI 3

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (20 dBi)*	Digital Path	G5RL10E	EMI 3

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active
Vertical polarity of the antenna is connected to Card 1, Ant port 2
Horizontal polarity of the antenna is connected to Card 1, Ant port 0

Radio 0, OFF
Radio 1, TX

5250-5350MHz

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power= 10.5,10.5,10.5
802.11n: 13MCSHT20 2S,TX power= 10.5,10.5,10.5

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power= 10.5,10.5,10.5
802.11n: 6.5MCS HT20 1S, TX power= 10.5,10.5,10.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

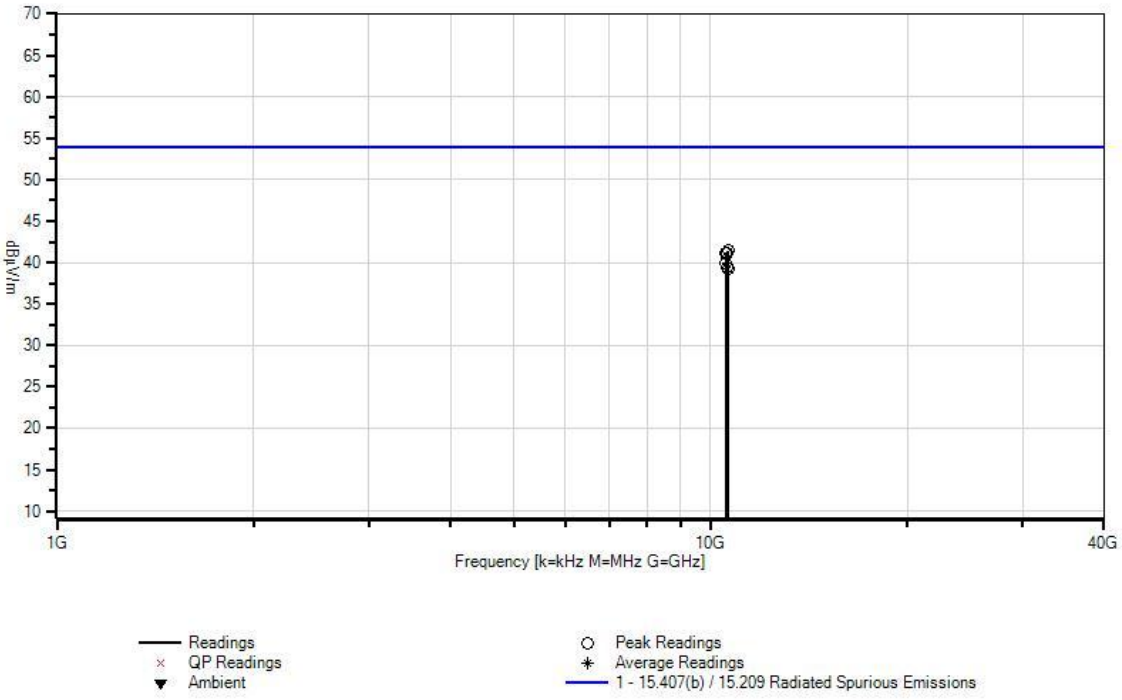
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10640.000	49.7	+0.0	+39.3	+2.3	+6.7	+0.0	41.4	54.0	-12.6	Vert
	M		+2.1	-58.7	+0.0						
2	10557.700	50.1	+0.0	+39.3	+2.3	+6.7	+0.0	41.2	54.0	-12.8	Vert
	M		+2.1	-59.3	+0.0						
3	10601.000	49.8	+0.0	+39.3	+2.3	+6.7	+0.0	41.1	54.0	-12.9	Vert
	M		+2.1	-59.1	+0.0						

4	10550.000 M	48.7	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	39.9	54.0	-14.1	Vert
5	10600.000 M	48.1	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	39.4	54.0	-14.6	Vert
6	10650.140 M	47.5	+0.0 +2.1	+39.3 -58.6	+2.3 +0.0	+6.7	+0.0	39.3	54.0	-14.7	Horiz

CKC Laboratories, Inc. Date: 5/29/2012 Time: 21:45:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 203 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 5/29/2012
Test Type: **Radiated Scan** Time: 22:12:00
Equipment: **5GHz Tri-Sector (20 dBi)** Sequence#: 204
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10E
S/N: EMI 3

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Tri-Sector (20 dBi)*	Digital Path	G5RL10E	EMI 3

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
Vertical polarity of the antenna is connected to Card 1, Ant port 2
Horizontal polarity of the antenna is connected to Card 1, Ant port 0

Radio 0, OFF
Radio 1, TX

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11.5, 11.5, 11.5
802.11n: 13MCS HT20 2S,TX power setting = 11.5, 11.5, 11.5

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 10.5, 14.10.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12, 14 .8.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

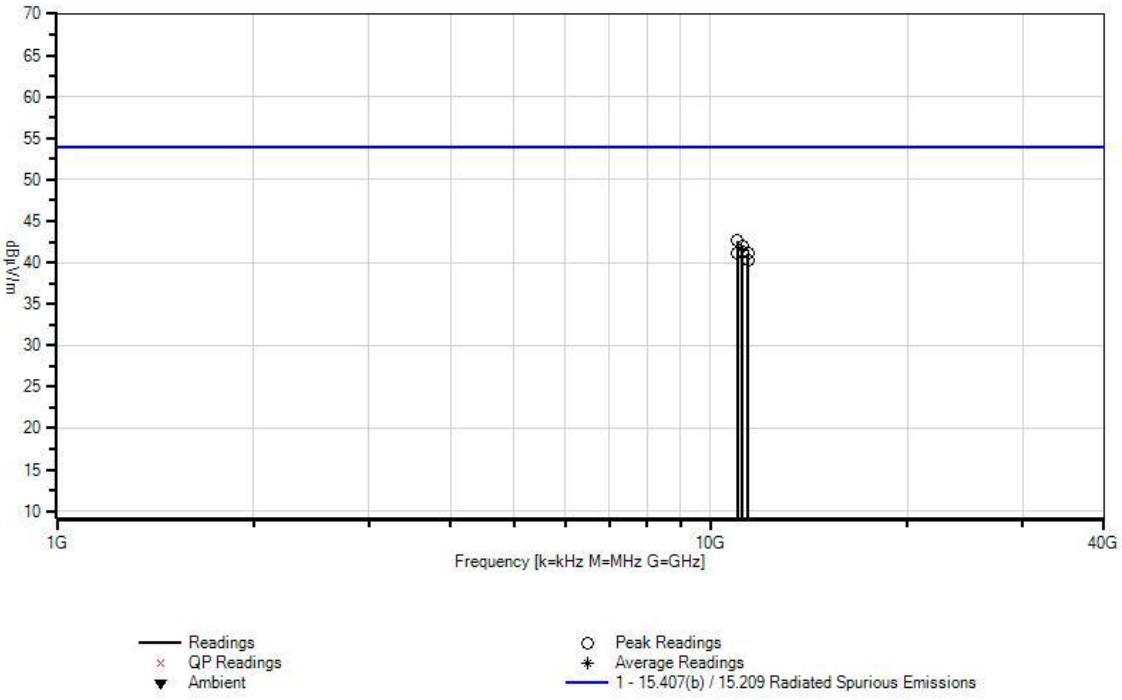
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 1 Meter

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11000.300	49.9	+0.0	+39.4	+2.3	+6.8	+0.0	42.6	54.0	-11.4	Vert
	M		+2.2	-58.0	+0.0						
2	11180.200	48.9	+0.0	+39.1	+2.3	+6.8	+0.0	42.0	54.0	-12.0	Horiz
	M		+2.2	-57.3	+0.0						
3	11181.400	48.2	+0.0	+39.1	+2.3	+6.8	+0.0	41.3	54.0	-12.7	Horiz
	M		+2.2	-57.3	+0.0						

4	10989.000 M	48.4	+0.0 +2.2	+39.4 -58.0	+2.3 +0.0	+6.8	+0.0	41.1	54.0	-12.9	Vert
5	11400.000 M	48.1	+0.0 +2.2	+38.8 -57.2	+2.3 +0.0	+6.9	+0.0	41.1	54.0	-12.9	Vert
6	11410.000 M	47.1	+0.0 +2.2	+38.8 -57.1	+2.3 +0.0	+6.9	+0.0	40.2	54.0	-13.8	Vert

CKC Laboratories, Inc. Date: 5/29/2012 Time: 22:12:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 1 Meter Sequence#: 204 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 10:46:49
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 206
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 11dBi Omni antenna connected to radio 0 (instance 1)

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 17.5, 17.5, 17.5
802.11n: 13MCSHT20 2S,TX power setting= 17.5, 17.5, 17.5

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power= 19, 19, 18
802.11n: 6.5MCS HT20 1S, TX power= 19, 19, 18

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10595.200 M	56.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	47.8	54.0 20MHz 802-11b-6.5MCSHT201S	-6.2	Vert
2	10569.600 M	54.9	+0.0 +2.1 +0.0	+39.3 -59.4	+2.3 +0.0	+6.7 +0.0	+0.0	45.9	54.0 20MHz 802-11b-6.5MCSHT201S	-8.1	Horiz
3	10551.900 M	53.0	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	44.2	54.0 10MHz-802.11n 13MCSHT202S	-9.8	Vert
4	10649.000 M Ave	51.8	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	43.6	54.0 10MHz 802.11a_24Mbps	-10.4	Horiz

^	10649.000 M	64.1	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	55.9	54.0	+1.9	Horiz	10MHz 802.11a_24Mbps
6	10560.000 M	51.9	+0.0 +2.1 +0.0	+39.3 -59.3	+2.3 +0.0	+6.7 +0.0	+0.0	43.0	54.0	-11.0	Vert	20MHz 802-11b-6.5MCSHT201S
7	10650.100 M Ave	49.1	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	40.9	54.0	-13.1	Horiz	10MHz-802.11n 13MCSHT202S
^	10650.100 M	63.8	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	55.6	54.0	+1.6	Horiz	10MHz-802.11n 13MCSHT202S
9	10641.150 M Ave	48.1	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	39.8	54.0	-14.2	Horiz	20MHz 802-11a 9Mbps
^	10641.150 M	60.8	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	52.5	54.0	-1.5	Horiz	20MHz 802-11a 9Mbps
11	15901.050 M Ave	41.8	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	39.5	54.0	-14.5	Horiz	10MHz 802.11a_24Mbps
^	15901.050 M	54.9	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	52.6	54.0	-1.4	Horiz	10MHz 802.11a_24Mbps
13	15824.700 M Ave	41.4	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	39.3	54.0	-14.7	Vert	10MHz-802.11n 13MCSHT202S
^	15824.700 M	56.4	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	54.3	54.0	+0.3	Vert	10MHz-802.11n 13MCSHT202S
15	21098.000 M Ave	50.2	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	39.2	54.0	-14.8	Horiz	10MHz 802.11a 24Mbps
^	21098.000 M	61.7	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	50.7	54.0	-3.3	Horiz	10MHz 802.11a 24Mbps
17	15975.000 M Ave	41.5	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	39.1	54.0	-14.9	Vert	10MHz-802.11n 13MCSHT202S

^	15975.000 M	53.2	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	50.8	54.0	-3.2	Vert	10MHz-802.11n 13MCSHT202S
19	15824.100 M Ave	41.1	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	39.0	54.0	-15.0	Horiz	10MHz-802.11n 13MCSHT202S
^	15824.100 M	54.1	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	52.0	54.0	-2.0	Horiz	10MHz-802.11n 13MCSHT202S
21	10560.000 M	47.8	+0.0 +2.1 +0.0	+39.3 -59.3	+2.3 +0.0	+6.7 +0.0	+0.0	38.9	54.0	-15.1	Vert	20MHz 802-11a 9Mbps
22	15900.500 M Ave	41.2	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.9	54.0	-15.1	Vert	10MHz-802.11n 13MCSHT202S
^	15900.500 M	54.7	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	52.4	54.0	-1.6	Vert	10MHz-802.11n 13MCSHT202S
24	15898.100 M Ave	41.1	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.8	54.0	-15.2	Horiz	10MHz-802.11n 13MCSHT202S
^	15898.100 M	54.2	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	51.9	54.0	-2.1	Horiz	10MHz-802.11n 13MCSHT202S
26	15960.000 M Ave	41.1	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	38.7	54.0	-15.3	Horiz	20MHz 802-11b-6.5MCSHT201S
^	15960.000 M	53.9	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	51.5	54.0	-2.5	Horiz	20MHz 802-11b-6.5MCSHT201S
28	15840.000 M Ave	40.7	+0.0 +2.9 +0.0	+40.1 -57.5	+2.8 +1.0	+8.5 +0.0	+0.0	38.5	54.0	-15.5	Vert	20MHz 802-11b-6.5MCSHT201S
^	15840.000 M	54.1	+0.0 +2.9 +0.0	+40.1 -57.5	+2.8 +1.0	+8.5 +0.0	+0.0	51.9	54.0	-2.1	Vert	20MHz 802-11b-6.5MCSHT201S
30	15974.600 M Ave	40.7	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	38.3	54.0	-15.7	Horiz	10MHz 802.11a_24Mbps

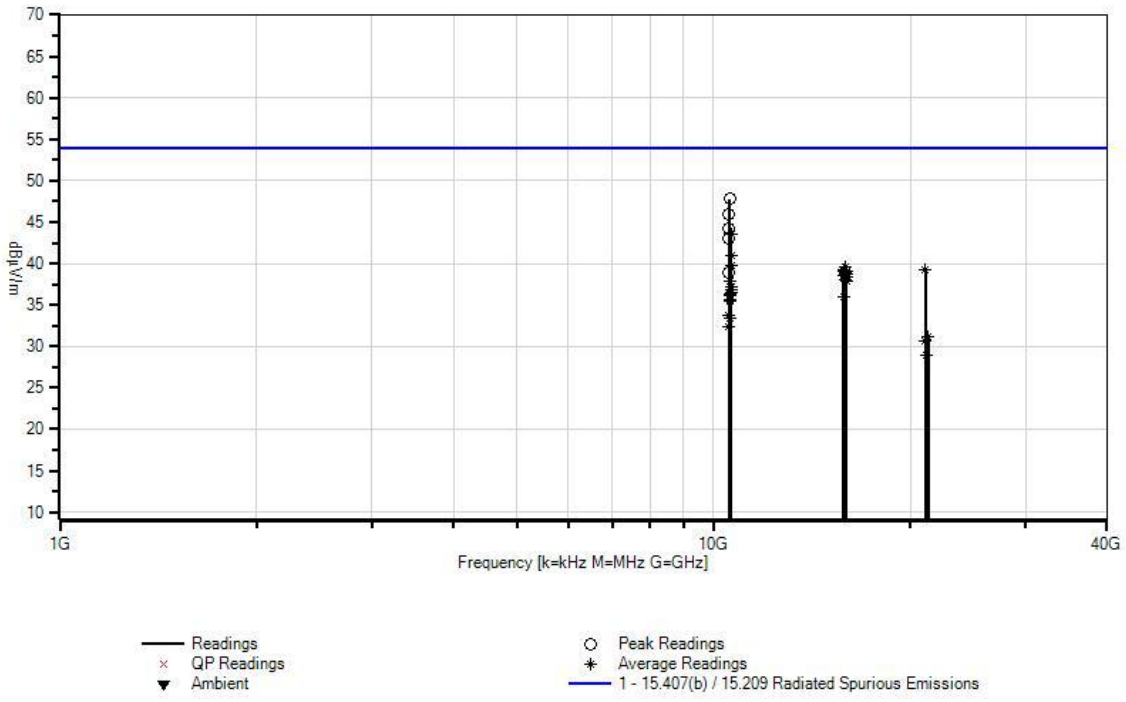
31	15900.000 M Ave	40.4	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	38.1	54.0	-15.9	Horiz	20MHz 802-11a 9Mbps
^	15900.000 M	53.8	+0.0 +2.9 +0.0	+39.9 -57.5	+2.8 +1.0	+8.6 +0.0	+0.0	51.5	54.0	-2.5	Horiz	20MHz 802-11a 9Mbps
33	10600.700 M Ave	46.6	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	37.9	54.0	-16.1	Horiz	10MHz 802.11a_24Mbps
^	10600.700 M	58.9	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	50.2	54.0	-3.8	Horiz	10MHz 802.11a_24Mbps
35	15974.600 M Ave	40.3	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	37.9	54.0	-16.1	Horiz	10MHz-802.11n 13MCSHT202S
^	15974.600 M	54.1	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	51.7	54.0	-2.3	Horiz	10MHz 802.11a_24Mbps
^	15974.600 M	52.7	+0.0 +2.8 +0.0	+39.7 -57.4	+2.8 +1.1	+8.6 +0.0	+0.0	50.3	54.0	-3.7	Horiz	10MHz-802.11n 13MCSHT202S
38	10649.600 M Ave	45.3	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	37.1	54.0	-16.9	Vert	10MHz 802.11a_24Mbps
^	10649.600 M	57.5	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	49.3	54.0	-4.7	Vert	10MHz 802.11a_24Mbps
40	10640.000 M Ave	45.2	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.9	54.0	-17.1	Vert	20MHz 802-11b-6.5MCSHT201S
^	10640.000 M	59.3	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	51.0	54.0	-3.0	Vert	20MHz 802-11b-6.5MCSHT201S
42	10640.000 M Ave	45.1	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.8	54.0	-17.2	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10640.000 M	58.6	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	50.3	54.0	-3.7	Horiz	20MHz 802-11b-6.5MCSHT201S

44	10650.000 M Ave	45.0	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	36.8	54.0	-17.2	Vert	10MHz-802.11n 13MCSHT202S
^	10650.000 M	59.5	+0.0 +2.1 +0.0	+39.3 -58.6	+2.3 +0.0	+6.7 +0.0	+0.0	51.3	54.0	-2.7	Vert	10MHz-802.11n 13MCSHT202S
46	10638.700 M Ave	44.8	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	36.5	54.0	-17.5	Vert	20MHz 802-11a 9Mbps
^	10638.700 M	57.3	+0.0 +2.1 +0.0	+39.3 -58.7	+2.3 +0.0	+6.7 +0.0	+0.0	49.0	54.0	-5.0	Vert	20MHz 802-11a 9Mbps
48	10600.000 M Ave	45.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	36.4	54.0	-17.6	Horiz	20MHz 802-11a 9Mbps
49	10600.000 M Ave	44.9	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	36.2	54.0	-17.8	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10600.000 M	59.3	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	50.6	54.0	-3.4	Horiz	20MHz 802-11b-6.5MCSHT201S
^	10600.000 M	58.2	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	49.5	54.0	-4.5	Horiz	20MHz 802-11a 9Mbps
52	15823.100 M Ave	38.0	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	35.9	54.0	-18.1	Horiz	10MHz 802.11a_24Mbps
^	15823.100 M	50.6	+0.0 +2.9 +0.0	+40.1 -57.4	+2.8 +1.0	+8.5 +0.0	+0.0	48.5	54.0	-5.5	Horiz	10MHz 802.11a_24Mbps
54	10596.800 M Ave	44.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	35.7	54.0	-18.3	Horiz	10MHz-802.11n 13MCSHT202S
^	10596.800 M	57.2	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	48.4	54.0	-5.6	Horiz	10MHz-802.11n 13MCSHT202S
56	10600.000 M Ave	44.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	35.4	54.0	-18.6	Vert	10MHz 802.11a_24Mbps

^	10600.000 M	57.2	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	48.5	54.0	-5.5	Vert	10MHz 802.11a_24Mbps
^	10600.000 M	54.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	45.4	54.0	-8.6	Vert	20MHz 802-11a 9Mbps
59	10549.500 M Ave	42.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	33.8	54.0	-20.2	Horiz	10MHz 802.11a_24Mbps
^	10549.500 M	54.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	45.7	54.0	-8.3	Horiz	10MHz 802.11a_24Mbps
61	10549.400 M Ave	42.5	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	33.7	54.0	-20.3	Horiz	10MHz-802.11n 13MCSHT202S
^	10549.400 M	56.6	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	47.8	54.0	-6.2	Horiz	10MHz-802.11n 13MCSHT202S
63	10600.500 M Ave	42.1	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	33.4	54.0	-20.6	Vert	10MHz-802.11n 13MCSHT202S
^	10600.500 M	57.4	+0.0 +2.1 +0.0	+39.3 -59.1	+2.3 +0.0	+6.7 +0.0	+0.0	48.7	54.0	-5.3	Vert	10MHz-802.11n 13MCSHT202S
65	10548.250 M Ave	41.1	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	32.3	54.0	-21.7	Vert	10MHz 802.11a_24Mbps
^	10548.250 M	54.4	+0.0 +2.1 +0.0	+39.3 -59.2	+2.3 +0.0	+6.7 +0.0	+0.0	45.6	54.0	-8.4	Vert	10MHz 802.11a_24Mbps
67	21300.000 M Ave	42.4	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.4	+0.0	31.2	54.0	-22.8	Horiz	10MHz 802.11a 24 Mbps
^	21300.000 M	55.3	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.4	+0.0	44.1	54.0	-9.9	Horiz	10MHz 802.11a 24 Mbps

69	21098.000 M Ave	41.7	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	30.7	54.0 10MHz 802.11a 24Mbps	-23.3	Vert
^	21098.000 M	54.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	43.1	54.0 10MHz 802.11a 24Mbps	-10.9	Vert
71	21200.000 M Ave	40.0	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.3	+0.0	28.9	54.0 10MHz 802.11a 24Mbps	-25.1	Horiz
^	21200.000 M	52.7	+0.0 +0.0 +4.2	+0.0 +0.0	+0.0 +0.0	+0.0 -15.3	+0.0	41.6	54.0 10MHz 802.11a 24Mbps	-12.4	Horiz

CKC Laboratories, Inc. Date: 6/1/2012 Time: 10:46:49 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 206 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 16:30:00
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 207
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)
This data sheet is for the EUT transmitting via 11dBi Omni antenna connected to radio 0 (instance 1)

Freq = 5470-5725MHz

5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 17, 18.5, 18.5
802.11n: 13MCSHT20 2S,TX power setting= 17, 18.5, 17.5

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting= 17, 19, 16.5
802.11n: 6.5MCS HT20 1S, TX power setting= 16.5, 19, 16.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2 T6	T3 T7	T4 T8	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	22820.000 M Ave	64.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	52.1	54.0 10MHz 802.11a 24Mbps	-1.9	Horiz
2	22820.000 M Ave	63.6	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	51.4	54.0 10MHz 802.11n 13MCSHT202S	-2.6	Horiz
^	22820.000 M	77.5	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	65.3	54.0 10MHz 802.11a 24Mbps	+11.3	Horiz
^	22820.000 M	76.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.5	+0.0	64.1	54.0 10MHz 802.11n 13MCSHT202S	+10.1	Horiz

5	22800.000	63.2	+0.0	+0.0	+0.0	+0.0	+0.0	51.0	54.0	-3.0	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
	Ave		+4.3						20MHz 802.11a 24Mbps			
6	22800.000	62.9	+0.0	+0.0	+0.0	+0.0	+0.0	50.7	54.0	-3.3	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
	Ave		+4.3						20MHz 802.11n 6.5MCSHT201S			
^	22800.000	74.5	+0.0	+0.0	+0.0	+0.0	+0.0	62.3	54.0	+8.3	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
			+4.3						20MHz 802.11a 24Mbps			
^	22800.000	72.8	+0.0	+0.0	+0.0	+0.0	+0.0	60.6	54.0	+6.6	Horiz	
	M		+0.0	+0.0	+0.0	-16.5						
			+4.3						20MHz 802.11n 6.5MCSHT201S			
9	11410.000	56.1	+0.0	+38.8	+2.3	+6.9	+0.0	49.2	54.0	-4.8	Horiz	
	M		+2.2	-57.1	+0.0	+0.0						
	Ave		+0.0						10MHz 24Mbps			
10	11180.000	55.3	+0.0	+39.1	+2.3	+6.8	+0.0	48.4	54.0	-5.6	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
	Ave		+0.0						10MHz 13MCSHT202S			
^	11180.000	68.1	+0.0	+39.1	+2.3	+6.8	+0.0	61.2	54.0	+7.2	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
			+0.0						10MHz 13MCSHT202S			
12	11398.000	55.3	+0.0	+38.8	+2.3	+6.9	+0.0	48.3	54.0	-5.7	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
	Ave		+0.0						20MHz 802.11n 6.5MCSHT201S			
^	11398.000	68.0	+0.0	+38.8	+2.3	+6.9	+0.0	61.0	54.0	+7.0	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
			+0.0						20MHz 802.11n 6.5MCSHT201S			
14	11399.700	55.0	+0.0	+38.8	+2.3	+6.9	+0.0	48.0	54.0	-6.0	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
	Ave		+0.0						20MHz 6.5MCSHT201S			
^	11399.700	67.6	+0.0	+38.8	+2.3	+6.9	+0.0	60.6	54.0	+6.6	Horiz	
	M		+2.2	-57.2	+0.0	+0.0						
			+0.0						20MHz 6.5MCSHT201S			
16	22360.000	59.8	+0.0	+0.0	+0.0	+0.0	+0.0	47.9	54.0	-6.1	Horiz	
	M		+0.0	+0.0	+0.0	-16.2						
	Ave		+4.3						10MHz 802.11a 24Mbps			
17	11184.200	54.4	+0.0	+39.1	+2.3	+6.8	+0.0	47.5	54.0	-6.5	Horiz	
	M		+2.2	-57.3	+0.0	+0.0						
	Ave		+0.0						20MHz 6.5MCSHT201S			

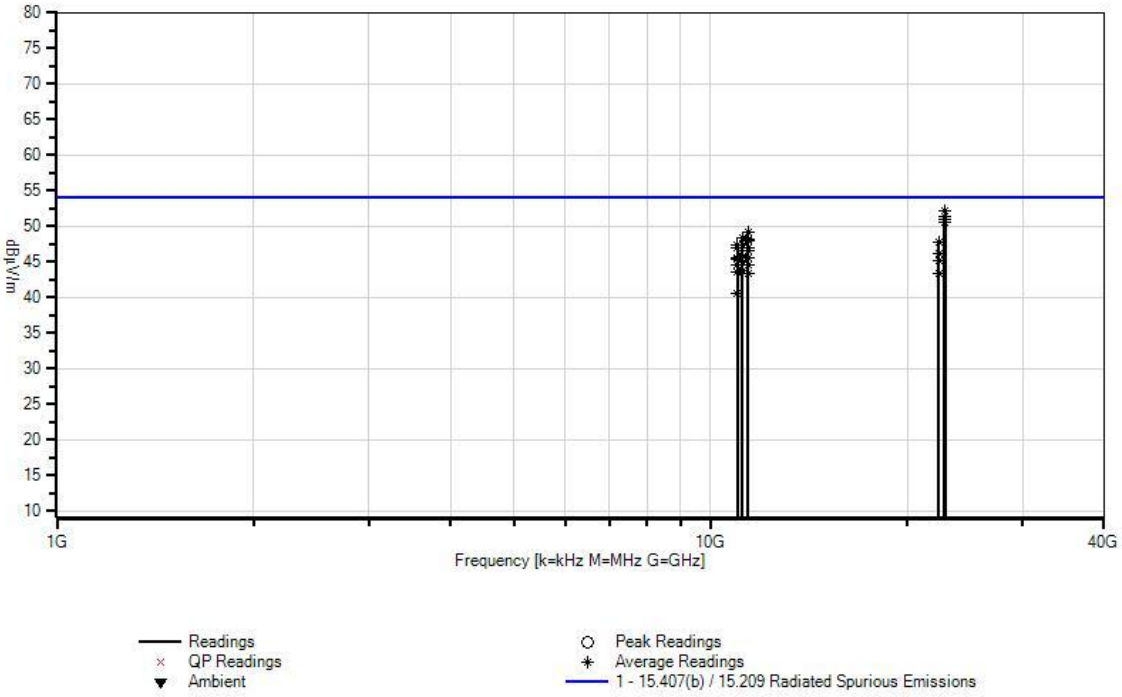
^	11184.200 M	67.5	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	60.6	54.0 20MHz 6.5MCSHT201S	+6.6	Horiz
19	11180.000 M Ave	54.4	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	47.5	54.0 10MHz 13MCSHT202S	-6.5	Vert
20	10998.600 M Ave	54.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	47.3	54.0 20MHz 6.5MCSHT201S	-6.7	Horiz
^	10998.600 M	66.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	59.5	54.0 20MHz 6.5MCSHT201S	+5.5	Horiz
22	10989.200 M Ave	54.4	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	47.1	54.0 10MHz 24Mbps	-6.9	Vert
^	10989.200 M	66.1	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	58.8	54.0 10MHz 24Mbps	+4.8	Vert
24	11397.600 M Ave	53.9	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	46.9	54.0 20MHz 802.11n 6.5MCSHT201S	-7.1	Vert
^	11397.600 M	67.6	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	60.6	54.0 20MHz 802.11n 6.5MCSHT201S	+6.6	Vert
26	10990.900 M Ave	54.2	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	46.9	54.0 10MHz 13MCSHT202S	-7.1	Vert
^	10990.900 M	66.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	59.3	54.0 10MHz 13MCSHT202S	+5.3	Vert
28	11410.000 M Ave	53.4	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	46.5	54.0 10MHz 13MCSHT202S	-7.5	Horiz
^	11410.000 M	67.6	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	60.7	54.0 10MHz 24Mbps	+6.7	Horiz
^	11410.000 M	65.7	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	58.8	54.0 10MHz 13MCSHT202S	+4.8	Horiz

31	22360.000 M Ave	58.2	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	46.3	54.0 10MHz 802.11n 13MCSHT202S	-7.7	Horiz
32	11180.000 M Ave	52.6	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.7	54.0 10MHz 24Mbps	-8.3	Vert
33	11178.950 M Ave	52.6	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.7	54.0 10MHz 24Mbps	-8.3	Horiz
^	11178.950 M	65.3	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	58.4	54.0 10MHz 24Mbps	+4.4	Horiz
35	10998.800 M Ave	52.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	45.6	54.0 20MHz 802.11n 6.5MCSHT201S	-8.4	Horiz
^	10998.800 M	64.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.4	54.0 20MHz 802.11n 6.5MCSHT201S	+3.4	Horiz
37	11410.000 M Ave	52.5	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	45.6	54.0 10MHz 24Mbps	-8.4	Vert
38	10989.200 M Ave	52.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	45.5	54.0 10MHz 24Mbps	-8.5	Horiz
39	22360.000 M Ave	57.1	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	45.2	54.0 20MHz 802.11a 24Mbps	-8.8	Horiz
40	11180.000 M Ave	52.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.1	54.0 20MHz 802.11n 6.5MCSHT201S	-8.9	Vert
41	11180.000 M Ave	51.9	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	45.0	54.0 20MHz 6.5MCSHT201S	-9.0	Vert
^	11180.000 M	67.7	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	60.8	54.0 10MHz 13MCSHT202S	+6.8	Vert
^	11180.000 M	66.4	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	59.5	54.0 20MHz 802.11n 6.5MCSHT201S	+5.5	Vert
^	11180.000 M	64.8	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.9	54.0 10MHz 24Mbps	+3.9	Vert

^	11180.000 M	64.1	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.2	54.0 20MHz 6.5MCSHT201S	+3.2	Vert
46	11400.100 M Ave	51.5	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	44.5	54.0 20MHz 6.5MCSHT201S	-9.5	Vert
^	11400.100 M	64.6	+0.0 +2.2 +0.0	+38.8 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	57.6	54.0 20MHz 6.5MCSHT201S	+3.6	Vert
48	10989.200 M Ave	51.8	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	44.5	54.0 10MHz 13MCSHT202S	-9.5	Horiz
^	10989.200 M	64.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.4	54.0 10MHz 24Mbps	+3.4	Horiz
^	10989.200 M	63.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	56.3	54.0 10MHz 13MCSHT202S	+2.3	Horiz
51	11178.200 M Ave	50.8	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	43.9	54.0 20MHz 802.11n 6.5MCSHT201S	-10.1	Horiz
^	11178.200 M	64.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	57.1	54.0 20MHz 802.11n 6.5MCSHT201S	+3.1	Horiz
53	10995.500 M Ave	50.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	43.6	54.0 20MHz 802.11n 6.5MCSHT201S	-10.4	Vert
^	10995.500 M	64.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	57.3	54.0 20MHz 802.11n 6.5MCSHT201S	+3.3	Vert
55	22360.000 M Ave	55.4	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	43.5	54.0 20MHz 802.11n 6.5MCSHT202S	-10.5	Horiz
^	22360.000 M	72.3	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	60.4	54.0 10MHz 802.11a 24Mbps	+6.4	Horiz
^	22360.000 M	70.4	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	58.5	54.0 20MHz 802.11n 6.5MCSFT201S	+4.5	Horiz

^	22360.000 M	69.5	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	57.6	54.0 20MHz 802.11a 24Mbps	+3.6	Horiz
^	22360.000 M	69.1	+0.0 +0.0 +4.3	+0.0 +0.0	+0.0 +0.0	+0.0 -16.2	+0.0	57.2	54.0 10MHz 802.11n 13MCSHT202S	+3.2	Horiz
60	11410.000 M Ave	50.2	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	43.3	54.0 10MHz 13MCSHT202S	-10.7	Vert
^	11410.000 M	64.3	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	57.4	54.0 10MHz 24Mbps	+3.4	Vert
^	11410.000 M	62.7	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	55.8	54.0 10MHz 13MCSHT202S	+1.8	Vert
63	10994.950 M Ave	47.9	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	40.6	54.0 20MHz 6.5MCSHT201S	-13.4	Vert
^	10994.950 M	61.6	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	54.3	54.0 20MHz 6.5MCSHT201S	+0.3	Vert

CKC Laboratories, Inc. Date: 6/1/2012 Time: 16:30:00 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 207 Horiz
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/1/2012
Test Type: **Radiated Scan** Time: 19:25:21
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 209
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00730	Preamp		1/31/2011	1/31/2013
	AN00432	Loop Antenna	6502	3/31/2011	3/31/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is activated.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2)

5250-5350MHz

Freq: 5275MHz, 5300MHz, 5325MHz.

BW = 10 MHz
802.11a: 24Mbps, TX power setting= 10.,10.,10
802.11n: 13MCSHT20 2S,TX power setting= 10.,10.,10

Freq: 5280MHz, 5300MHz, 5320MHz.
BW= 20MHz
802.11a: 9 Mbps, TX power setting 12.5,12.5,12.5
802.11n: 6.5MCS HT20 1S, TX power setting= 12.5,12.5,12.5

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

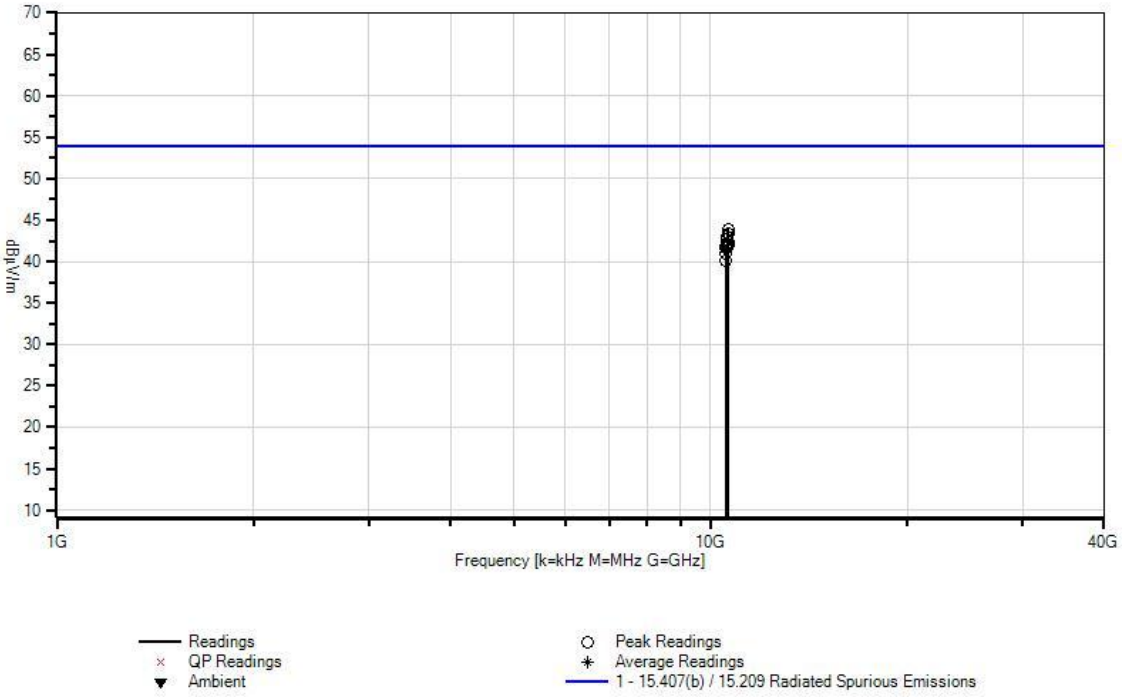
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
			T5	T6	T7						
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	10640.000	52.2	+0.0	+39.3	+2.3	+6.7	+0.0	43.9	54.0	-10.1	Horiz
	M		+2.1	-58.7	+0.0						
2	10650.000	51.6	+0.0	+39.3	+2.3	+6.7	+0.0	43.4	54.0	-10.6	Horiz
	M		+2.1	-58.6	+0.0						
3	10600.000	51.7	+0.0	+39.3	+2.3	+6.7	+0.0	43.0	54.0	-11.0	Horiz
	M		+2.1	-59.1	+0.0						
4	10600.000	51.3	+0.0	+39.3	+2.3	+6.7	+0.0	42.6	54.0	-11.4	Vert
	M		+2.1	-59.1	+0.0						

5	10650.000 M	50.5	+0.0 +2.1	+39.3 -58.6	+2.3 +0.0	+6.7	+0.0	42.3	54.0	-11.7	Vert
6	10640.000 M	50.3	+0.0 +2.1	+39.3 -58.7	+2.3 +0.0	+6.7	+0.0	42.0	54.0	-12.0	Vert
7	10600.000 M	50.7	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	42.0	54.0	-12.0	Vert
8	10600.000 M	50.6	+0.0 +2.1	+39.3 -59.1	+2.3 +0.0	+6.7	+0.0	41.9	54.0	-12.1	Horiz
9	10560.000 M	50.7	+0.0 +2.1	+39.3 -59.3	+2.3 +0.0	+6.7	+0.0	41.8	54.0	-12.2	Horiz
10	10550.000 M	50.5	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	41.7	54.0	-12.3	Horiz
11	10551.100 M	49.8	+0.0 +2.1	+39.3 -59.2	+2.3 +0.0	+6.7	+0.0	41.0	54.0	-13.0	Vert
12	10560.000 M	49.0	+0.0 +2.1	+39.3 -59.3	+2.3 +0.0	+6.7	+0.0	40.1	54.0	-13.9	Vert

CKC Laboratories, Inc. Date: 6/1/2012 Time: 19:25:21 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 209 Vert
UNII Bands. 20MHz Channel width.



Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249 - 1170

Customer: **Digital Path**
Specification: **15.407(b) / 15.209 Radiated Spurious Emissions**
Work Order #: **92682** Date: 6/3/2012
Test Type: **Radiated Scan** Time: 09:19:51
Equipment: **5GHz Panel (18dBi) + Omni (11dBi)** Sequence#: 210
Manufacturer: Digital Path Tested By: E. Wong
Model: G5RL10G
S/N: EMI 2

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02668	Spectrum Analyzer	E4446A	2/23/2011	2/23/2013
T2	AN02157	Horn Antenna-ANSI C63.5	3115	1/17/2011	1/17/2013
T3	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
T4	ANP01210	Cable	FSJ1P-50A-4A	3/15/2011	3/15/2013
T5	ANP05913	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
T6	AN03114	Preamp	AMF-7D-00101800-30-10P	5/13/2011	5/13/2013
	ANP05935	Attenuator	84A-10	10/19/2011	10/19/2013
	ANP01211	Attenuator	23-10-34	4/15/2011	4/15/2013
T7	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
T8	AN02694	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	11/10/2010	11/10/2012
	AN02695	Active Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-260400-33-8P	11/10/2010	11/10/2012
T9	ANP05911	Cable	32022-29094K-65TC	8/30/2011	8/30/2013
	AN00852	Biconilog Antenna	CBL 6111C	11/16/2010	11/16/2012
	AN00730	Preamp		1/31/2011	1/31/2013
	ANP05299	Cable	RG214	3/6/2011	3/6/2013
	ANP05300	Cable	RG214/U	3/7/2011	3/7/2013
	ANP05440	Cable		3/7/2011	3/7/2013

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
5GHz Panel (18dBi) + Omni (11dBi)*	Digital Path	G5RL10G	EMI 2

Support Devices:

Function	Manufacturer	Model #	S/N
Laptop Computer	HP	ProBook 6565b	5CB13637ZF
Laptop Power Supply	HP	608428-002	F12941126327228

Test Conditions / Notes:

The EUT installed on a pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop via unshielded twisted pair.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.

11dBi Omni antenna is connected to radio 0 (instance 1)
18 dBi panel antenna is connected to radio1 (instance 2)

This data sheet is for the EUT transmitting via 18dBi Panel antenna connected to radio 1 (instance 2)

5470-5725MHz

Freq: 5495MHz, 5590MHz, 5705MHz.
BW = 10 MHz
802.11a: 24Mbps, TX power setting= 11, 11, 11
802.11n: 13MCS HT20 2S,TX power setting= 11, 11, 11

Freq: 5500MHz, 5590MHz, 5700MHz.
BW= 20MHz
802.11a: 24 Mbps, TX power setting= 13.5, 13.5, 12.5
802.11n: 6.5MCS HT20 1S, TX power setting= 13.5, 13.5, 11

Temperature: 21.9°C, Relative Humidity: 38-43%, Atmospheric Pressure: 101.5kPa

No emission found. Detection was performed with reduced resolution bandwidth, recorded data represent noise floor level at required BW.

Frequency range of measurement = 9kHz-40GHz.
9 kH -150 kHz; RBW=200 Hz, VBW=200 Hz;150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 MHz.

Recorded emission level is below the EIRP limit of -27dBm/MHz (68.2dBuV/m @ 3 meter) IAW 789033 D01 General UNII Test Procedures V01r01

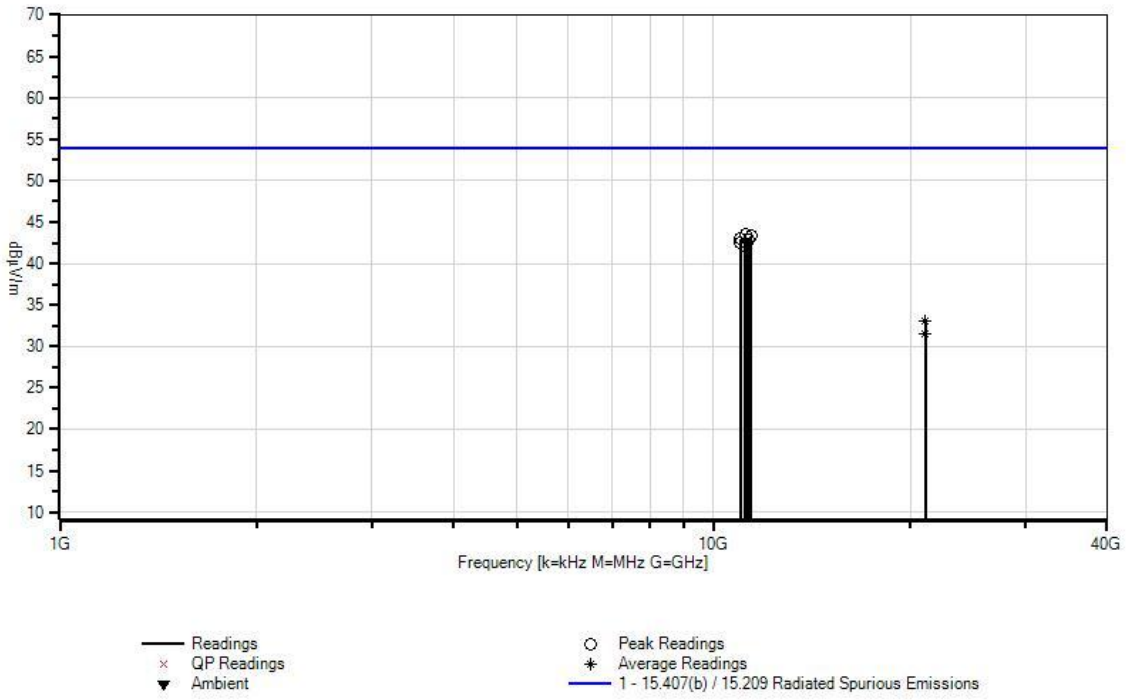
Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5 T9	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	11189.000 M	50.3	+0.0 +2.2 +0.0	+39.1 -57.2	+2.3 +0.0	+6.8 +0.0	+0.0	43.5	54.0	-10.5	Vert
2	11407.900 M	50.2	+0.0 +2.2 +0.0	+38.8 -57.1	+2.3 +0.0	+6.9 +0.0	+0.0	43.3	54.0	-10.7	Vert
3	10990.000 M	50.2	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.9	54.0	-11.1	Vert
4	11290.000 M	49.6	+0.0 +2.2 +0.0	+39.0 -57.2	+2.3 +0.0	+6.9 +0.0	+0.0	42.8	54.0	-11.2	Horiz

5	11000.000 M	49.7	+0.0 +2.2 +0.0	+39.4 -58.0	+2.3 +0.0	+6.8 +0.0	+0.0	42.4	54.0	-11.6	Horiz
6	11180.000 M	49.0	+0.0 +2.2 +0.0	+39.1 -57.3	+2.3 +0.0	+6.8 +0.0	+0.0	42.1	54.0	-11.9	Horiz
7	21104.000 M Ave	44.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	33.1	54.0	-20.9	Vert
^	21104.000 M	57.1	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	46.1	54.0	-7.9	Vert
9	21104.000 M Ave	42.5	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	31.5	54.0	-22.5	Horiz
^	21104.000 M	56.6	+0.0 +0.0 +4.1	+0.0 +0.0	+0.0 +0.0	+0.0 -15.1	+0.0	45.6	54.0	-8.4	Horiz

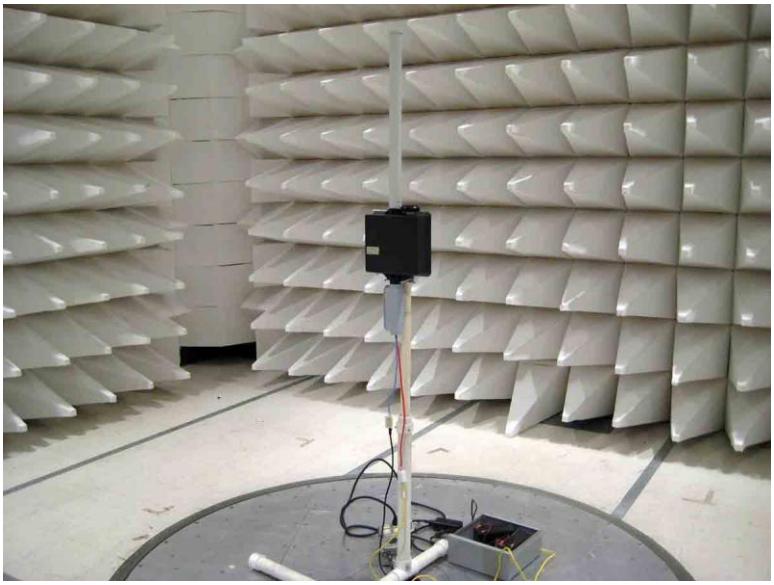
CKC Laboratories, Inc. Date: 6/3/2012 Time: 09:19:51 Digital Path WO#: 92682
15.407(b) / 15.209 Radiated Spurious Emissions Test Distance: 3 Meters Sequence#: 210 Vert
UNII Bands. 20MHz Channel width.



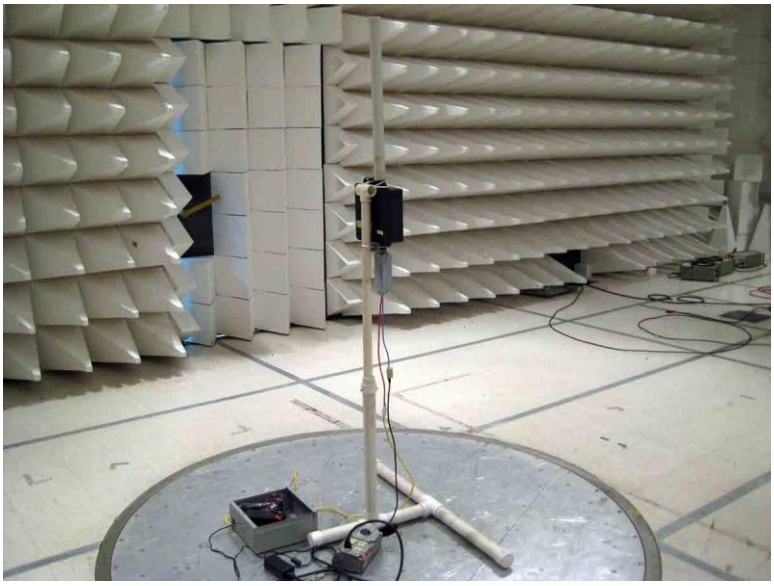
Test Setup Photos

17dBi Sector

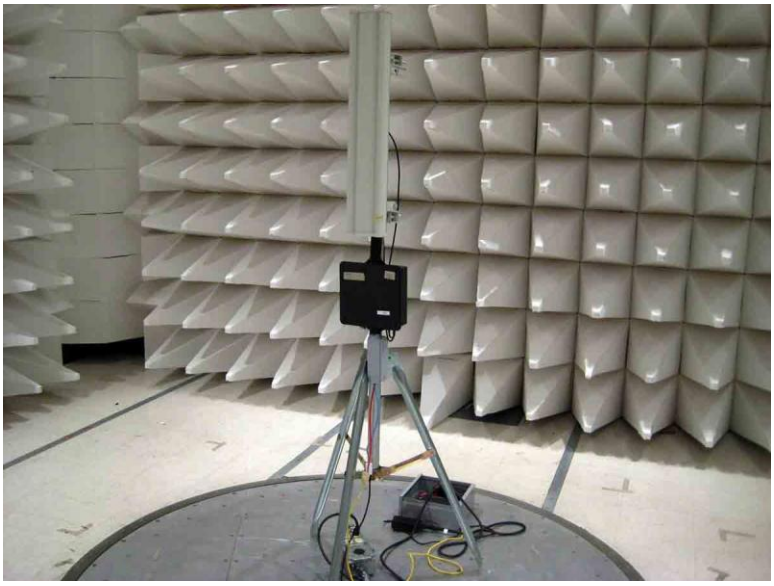
17dBi Sector



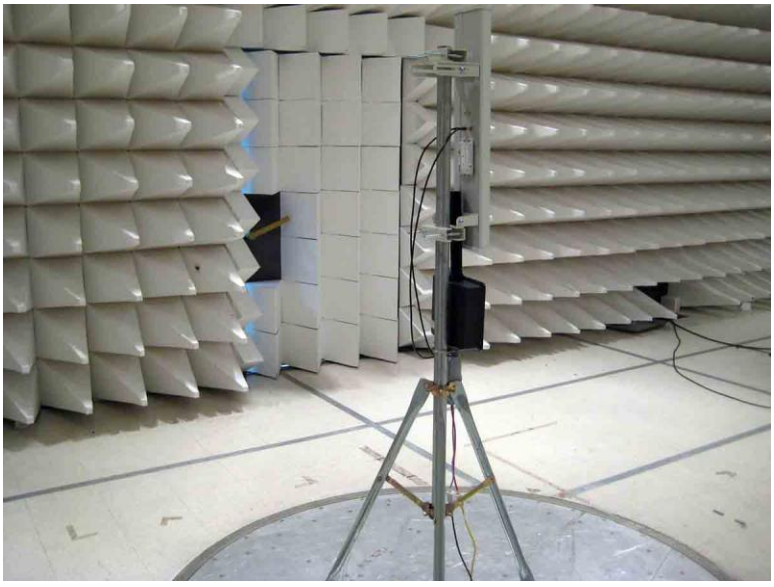
18dBi, 11dBi



18dBi, 11dBi



20dBi Sector



20dBi Sector

15.407(g) Frequency Stability

Test Conditions / Setup

FL and FH are frequency points where the portion of the fundamental emission crosses the limit line. The worst case FL and FH channels were determined during the radiated emissions testing and are listed below.

Worse case FL = 5252MHz, FH = 5346MHz in 5250-5350GHz band
Worse case FL = 5475 MHz, FH= 5724MHz in 5470-5725GHz band

Voltage Variations:
Varied the voltage from 100-240VAC while monitoring FL and FH for each frequency band. There were no significant changes in FL and FH as the voltage was varied.

Temperature Variations:
During the temperature testing, the transmitter was set to either FL or FH at ambient temperature (20°C) and the 10dB down frequency was measured. This frequency is now the reference frequency for that setting. At each 10deg increment of temperature, the 10dB down frequency was measured. The difference between this frequency and the reference frequency was then added to the appropriate measured FL and FH for each frequency band. At each temperature, the device was allowed to soak for 1 hour before the measurements were made to ensure the device was at temperature.

The transmitter operating temperature range is 0 – 60°C.

Engineer Name: C. Nicklas

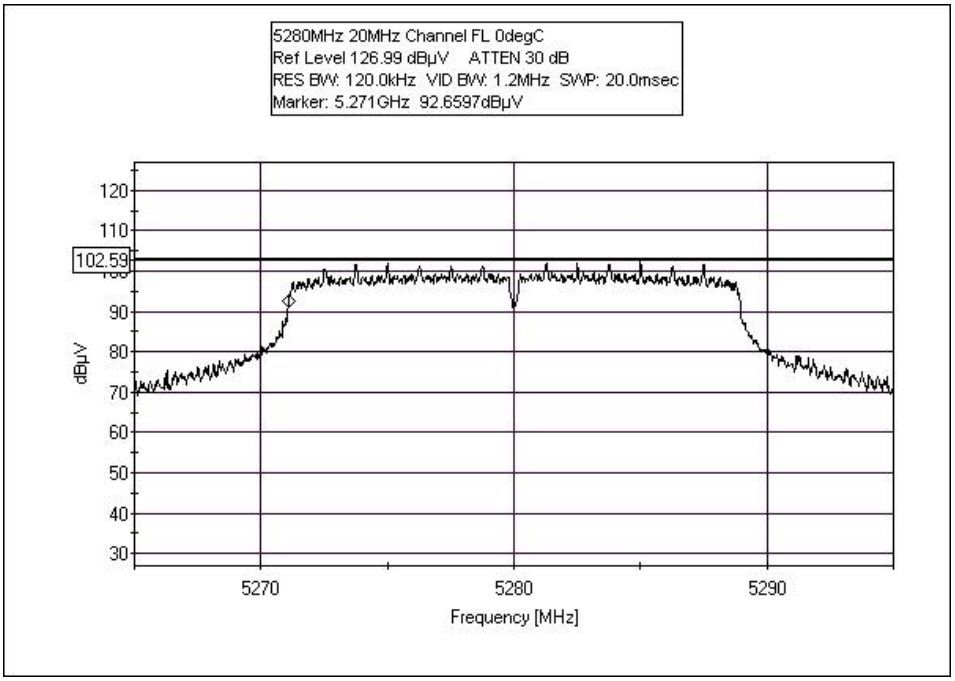
Test Equipment					
Asset/Serial #	**Description**	**Model**	**Manufacturer**	**Cal Date**	**Cal Due**
02668	Spectrum Analyzer	E4446A	Agilent	2/23/2011	2/23/2013
P05843	Cable	32022-2-29094K-48TC	AstroLab	7/30/2010	7/30/2012
P05935	Attenuator	84A-10	Weinschel	10/19/2011	10/19/2013
P05913	Cable	32022-29094K-65TC	AstroLab	8/30/2011	8/30/2013
P06239	Attenuator	54A-10	Weinschel	3/21/2012	3/21/2014
02721	Temperature Humidity Chamber/Oven	SM-8C	Thermotron	6/14/2012	6/14/2014
03314	Programmable Power Source	4801iL	California Instruments	NCR	NCR
02131	Multimeter	DMM914	Tektronix	9/9/2011	9/9/2013

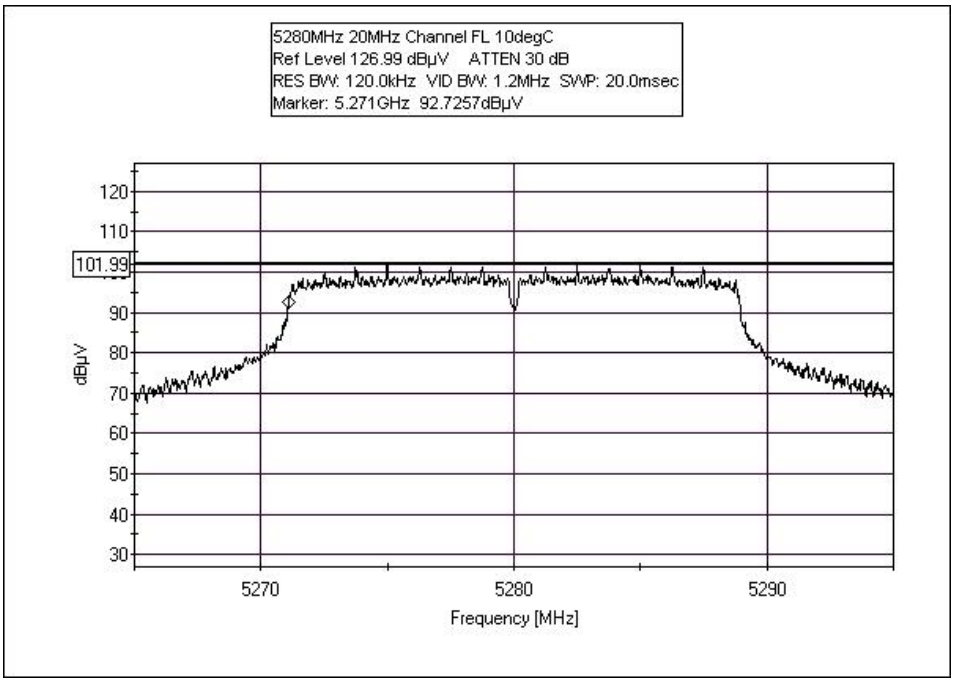
NCR: No calibration required because a calibrated multimeter was used to set and verify to voltage output of the power supply.

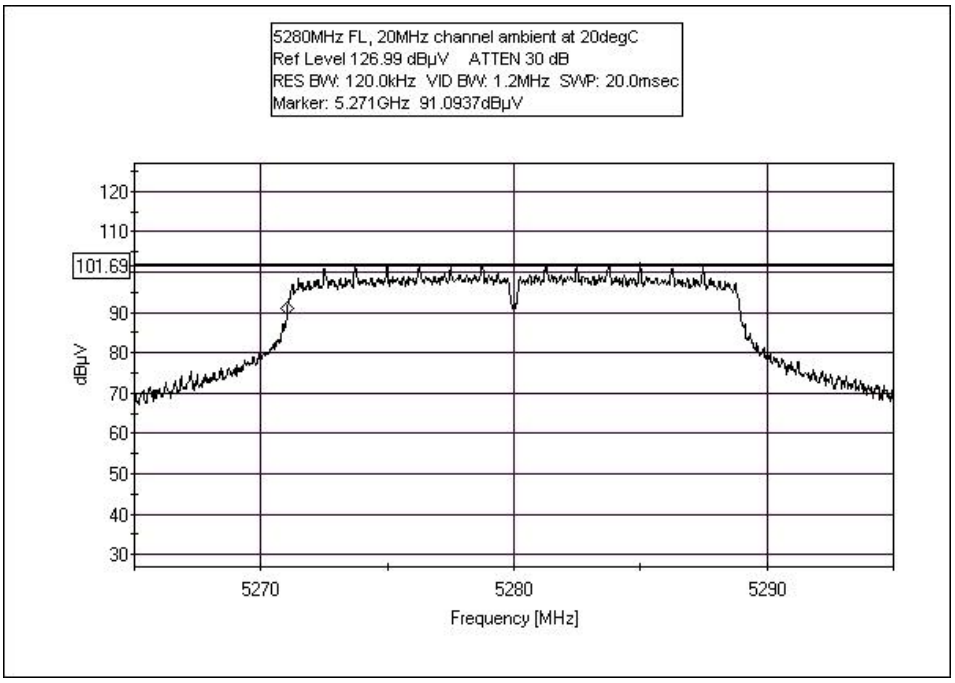
Test Data

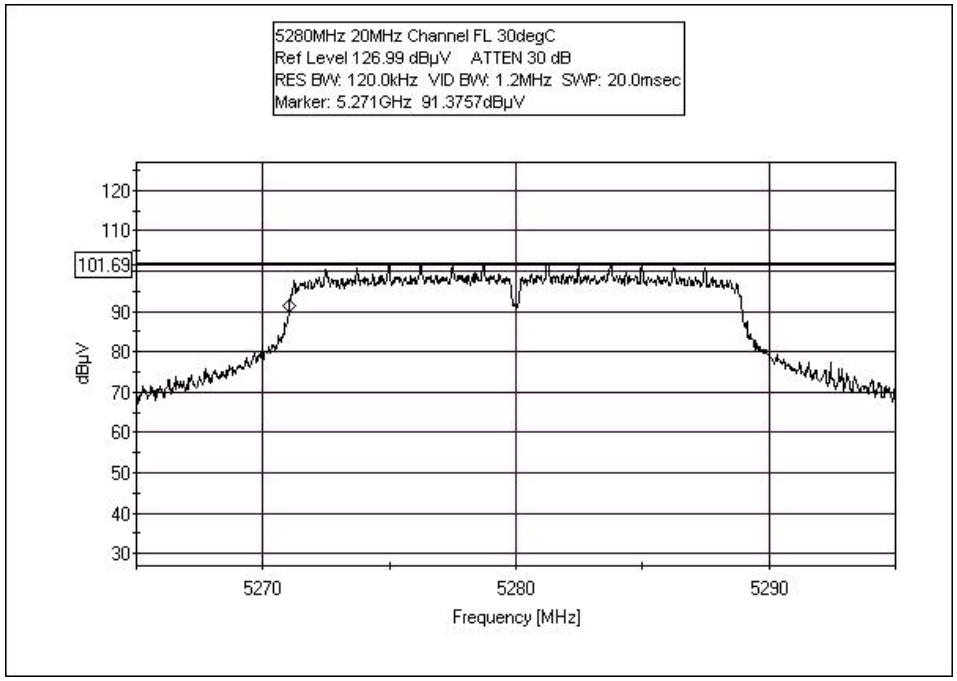
Frequency Stability Data				
	UNII 5.25-5.35GHz Band		UNII 5.47-5.725Gz Band	
Temperature (°C)	FL (MHz)	FH (MHz)	FL (MHz)	FH (MHz)
0	5252.03	5346.00	5475.06	5724.00
10	5252.03	5346.00	5475.03	5724.00
20	5252.00	5346.00	5475.00	5724.00
30	5252.00	5346.03	5475.03	5724.06
40	5252.00	5346.03	5475.00	5724.06
50	5252.00	5346.03	5475.03	5724.03
60	5252.00	5346.00	5475.00	5724.00
Limit	≥ 5250	≤ 5350	≥ 5470	≤ 5725
Data Rate	6.5MCSHT201S	9Mbps	24Mbps	6.5MCSHT201S

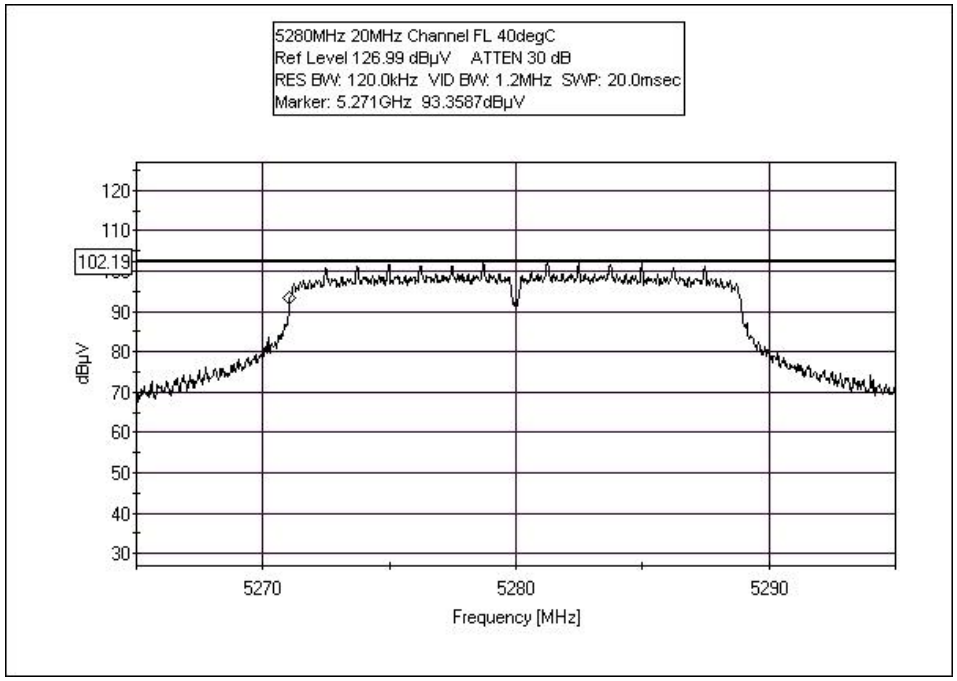
Input Voltage: 120VAC, 60Hz

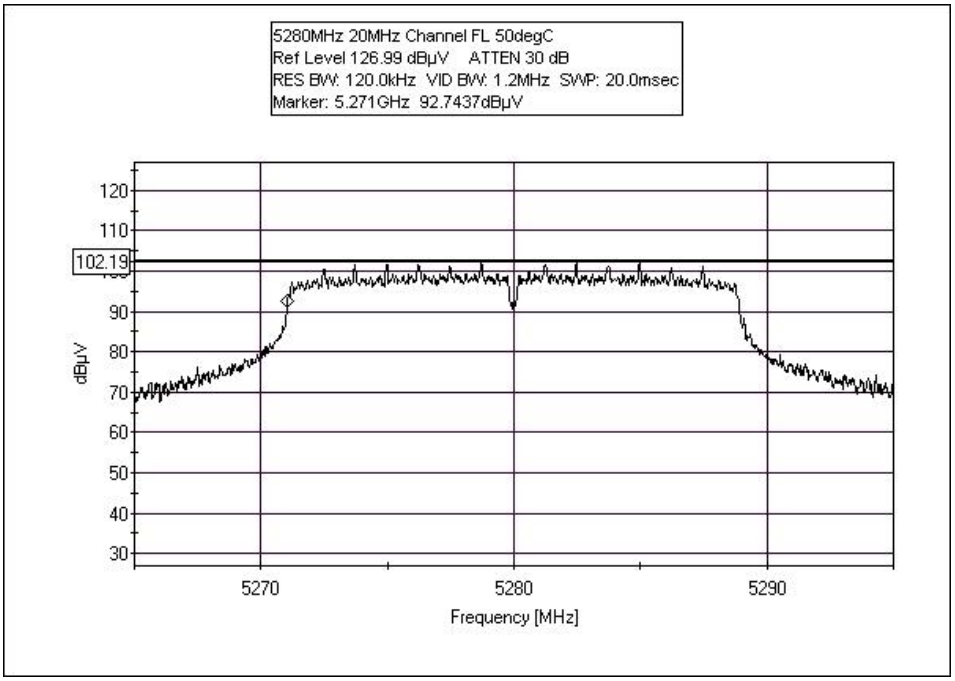


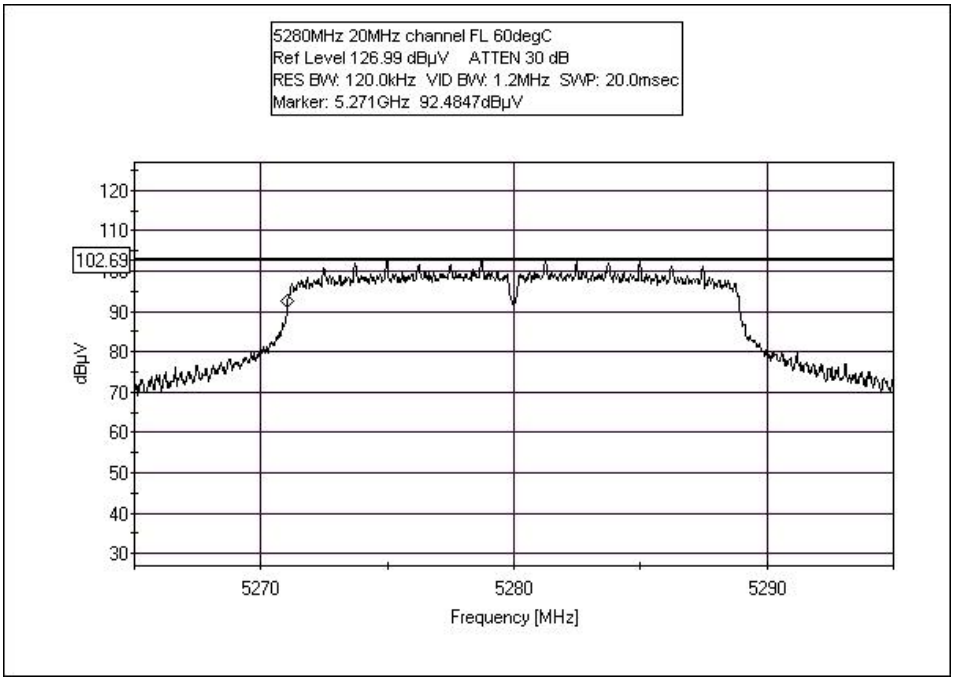

5280MHz 20MHz Channel FL 10degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 92.7257dBµV
120
110
101.99
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

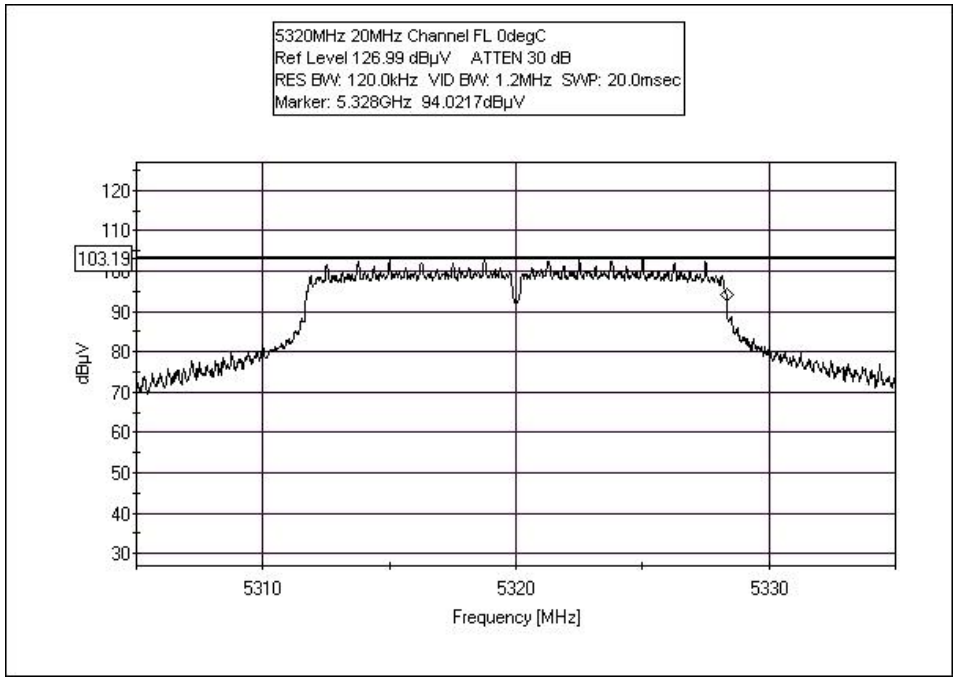

5280MHz FL, 20MHz channel ambient at 20degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 91.0937dBµV
120
110
101.69
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

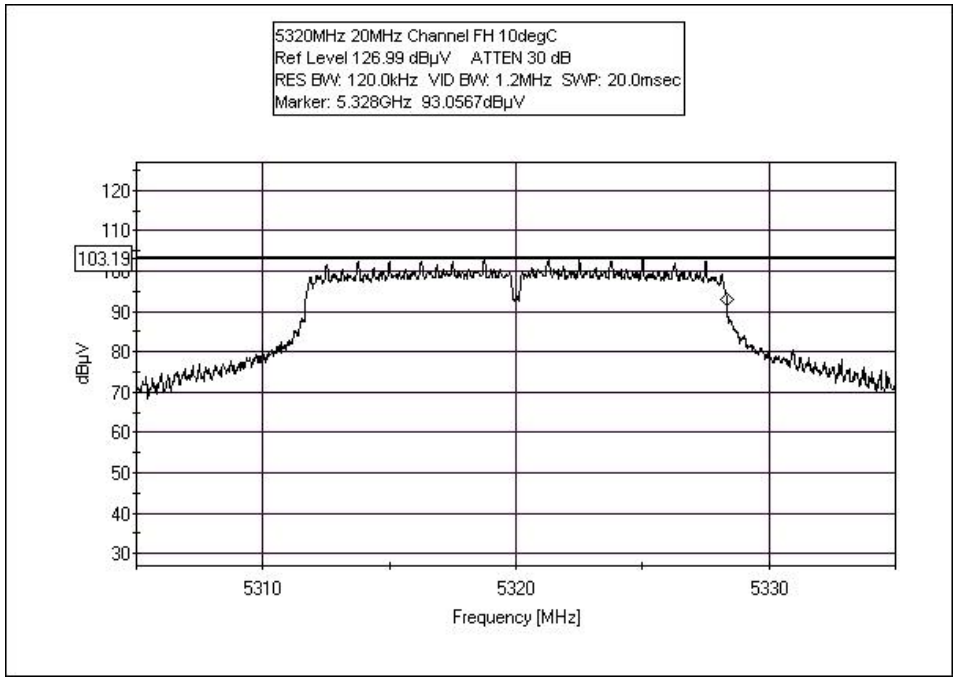

5280MHz 20MHz Channel FL 30degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 91.3757dBµV
120
110
101.69
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

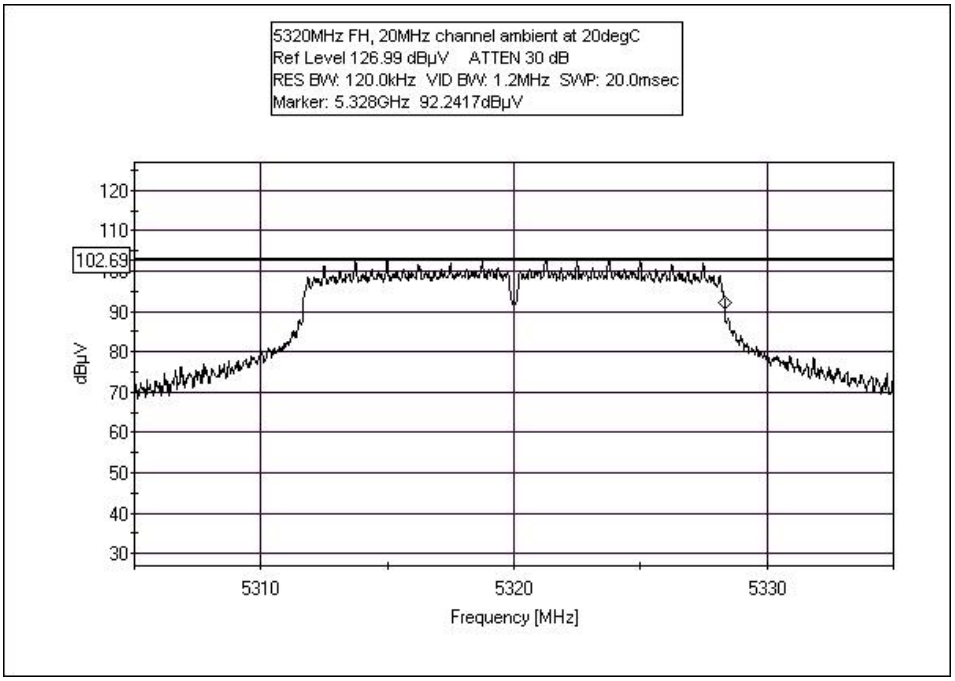

5280MHz 20MHz Channel FL 40degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 93.3587dBµV
120
110
102.19
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

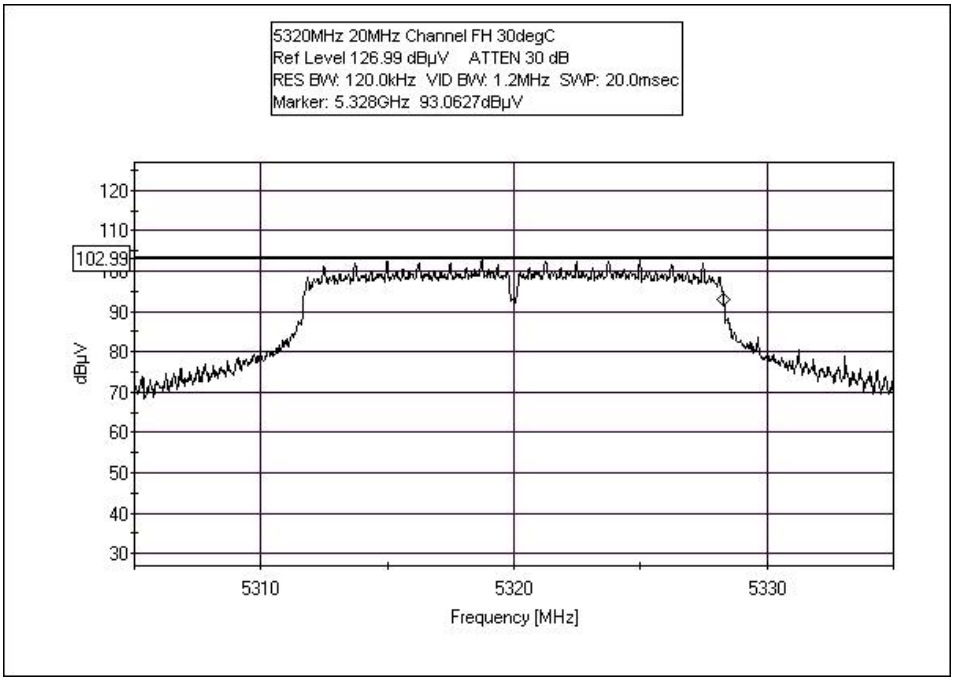

5280MHz 20MHz Channel FL 50degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 92.7437dBµV
120
110
102.19
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

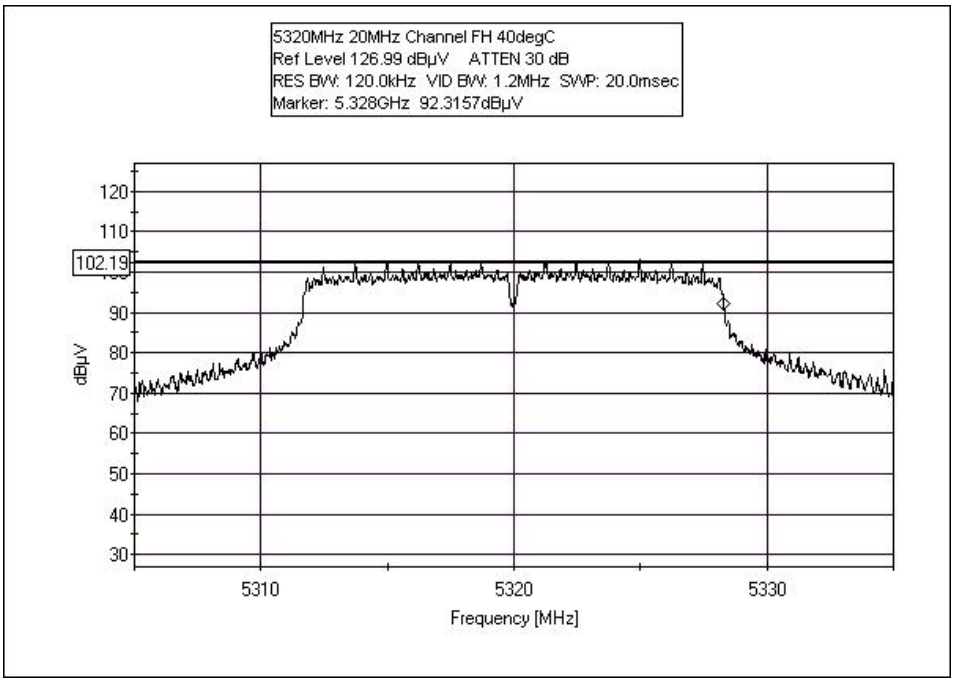

5280MHz 20MHz channel FL 60degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.271GHz 92.4847dBµV
120
110
102.69
90
80
70
60
50
40
30
dBµV
5270
5280
5290
Frequency [MHz]

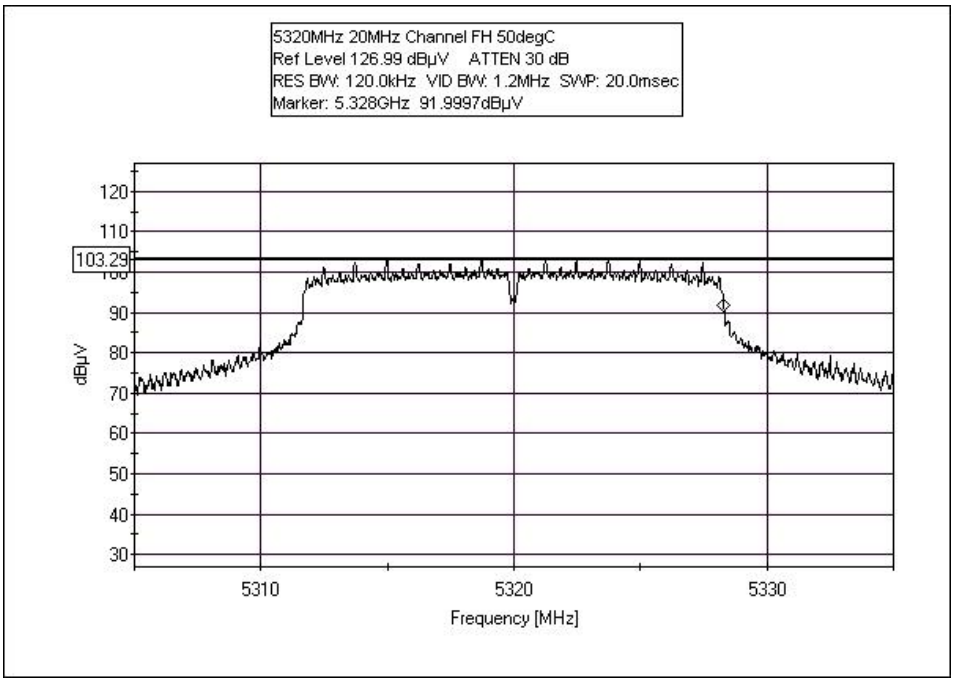

5320MHz 20MHz Channel FL 0degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 94.0217dBµV
120
110
103.19
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

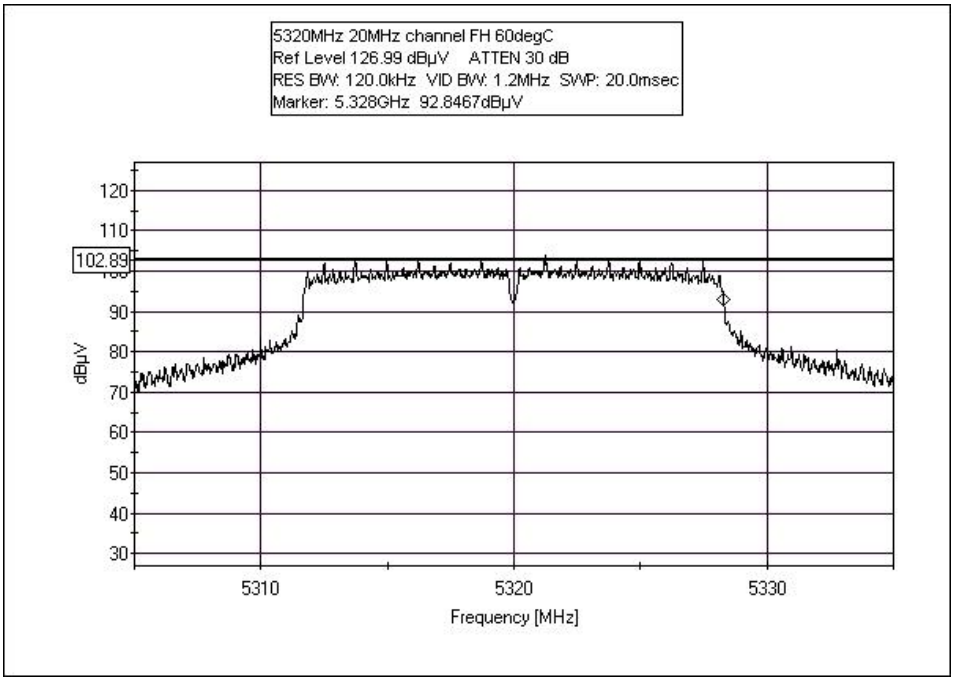

5320MHz 20MHz Channel FH 10degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 93.0567dBµV
120
110
103.19
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

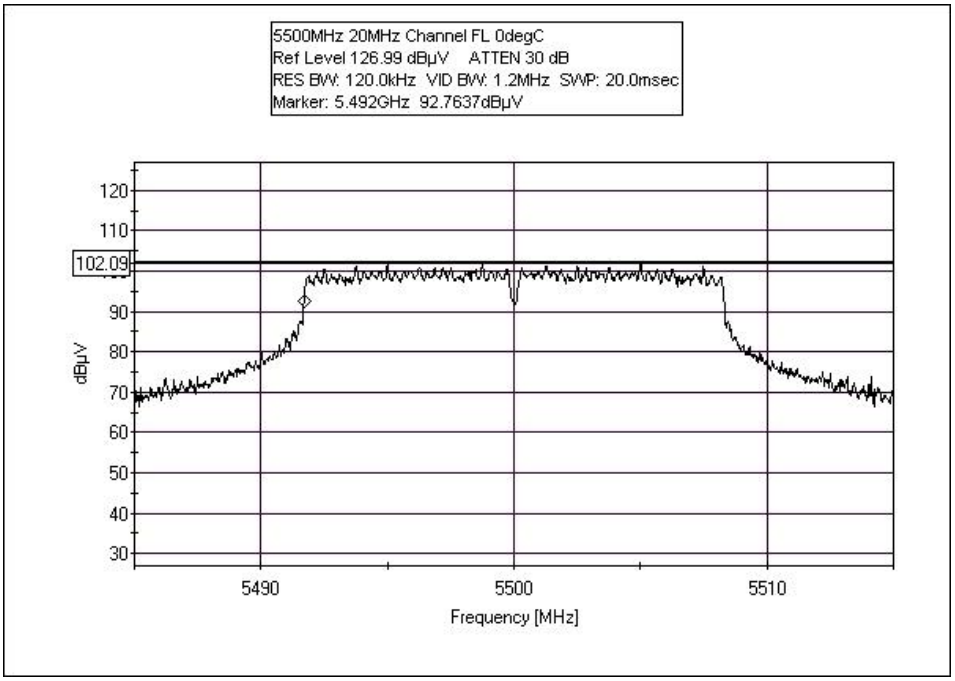

5320MHz FH, 20MHz channel ambient at 20degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 92.2417dBµV
120
110
102.69
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

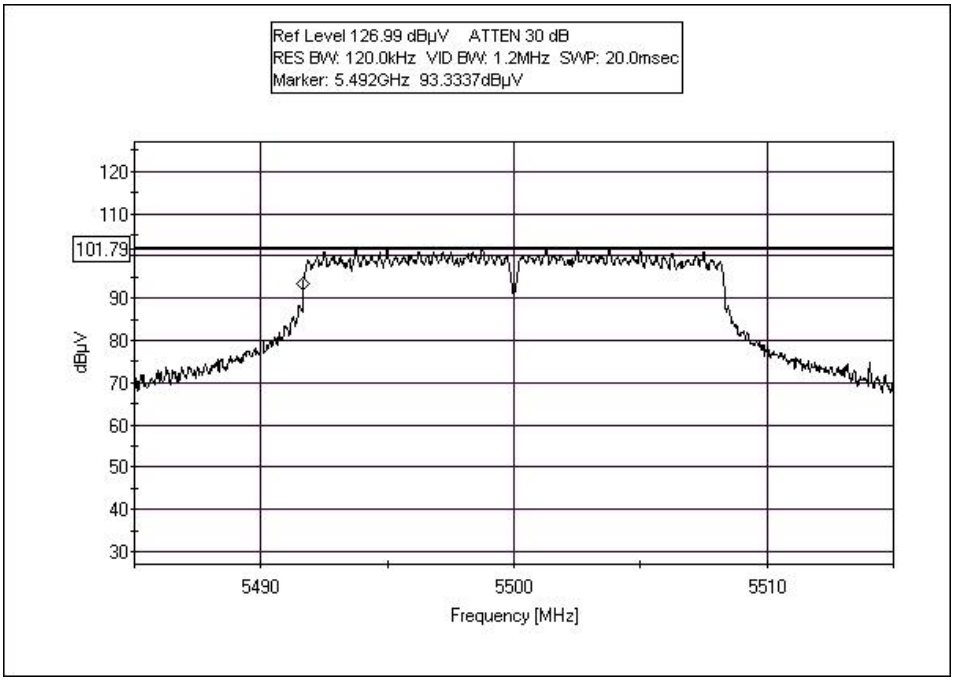

5320MHz 20MHz Channel FH 30degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 93.0627dBµV
120
110
102.99
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

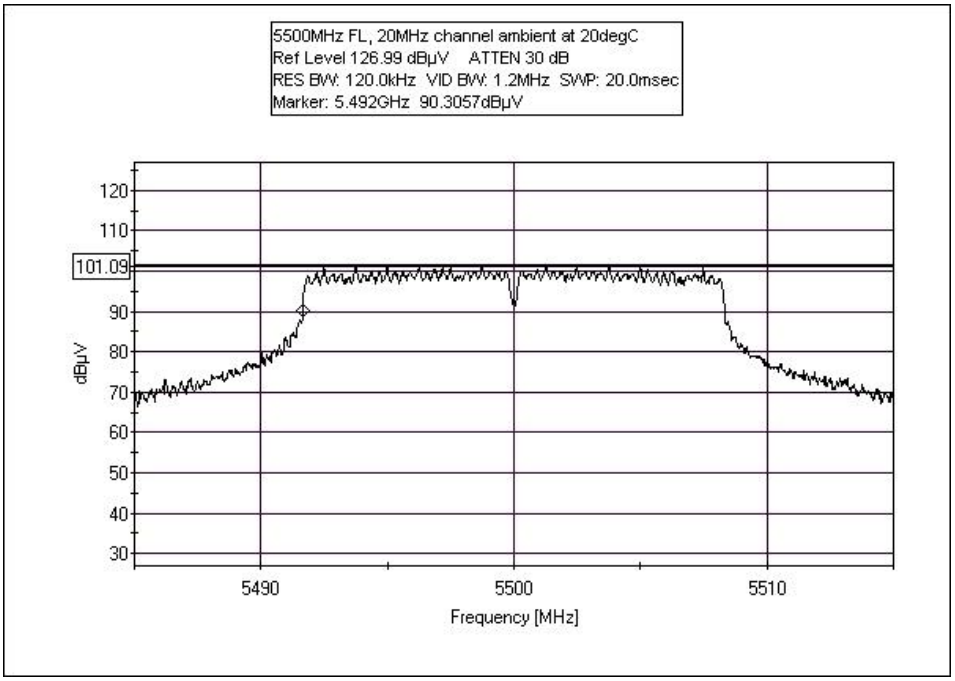

5320MHz 20MHz Channel FH 40degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 92.3157dBµV
120
110
102.19
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

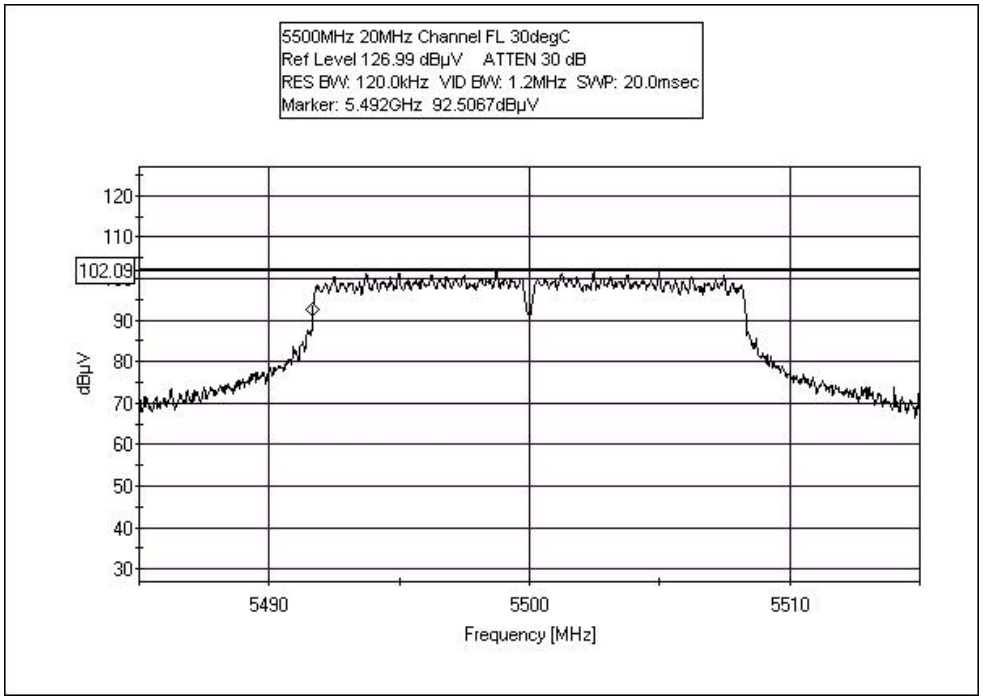

5320MHz 20MHz Channel FH 50degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 91.9997dBµV
120
110
103.29
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

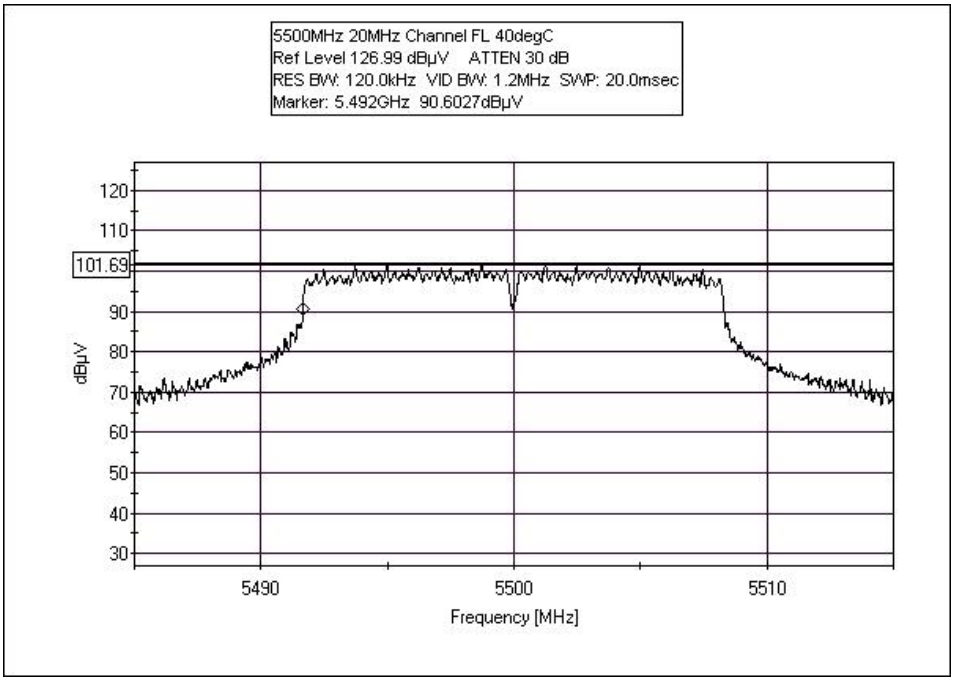

5320MHz 20MHz channel FH 60degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.328GHz 92.8467dBµV
120
110
102.89
90
80
70
60
50
40
30
dBµV
5310
5320
5330
Frequency [MHz]

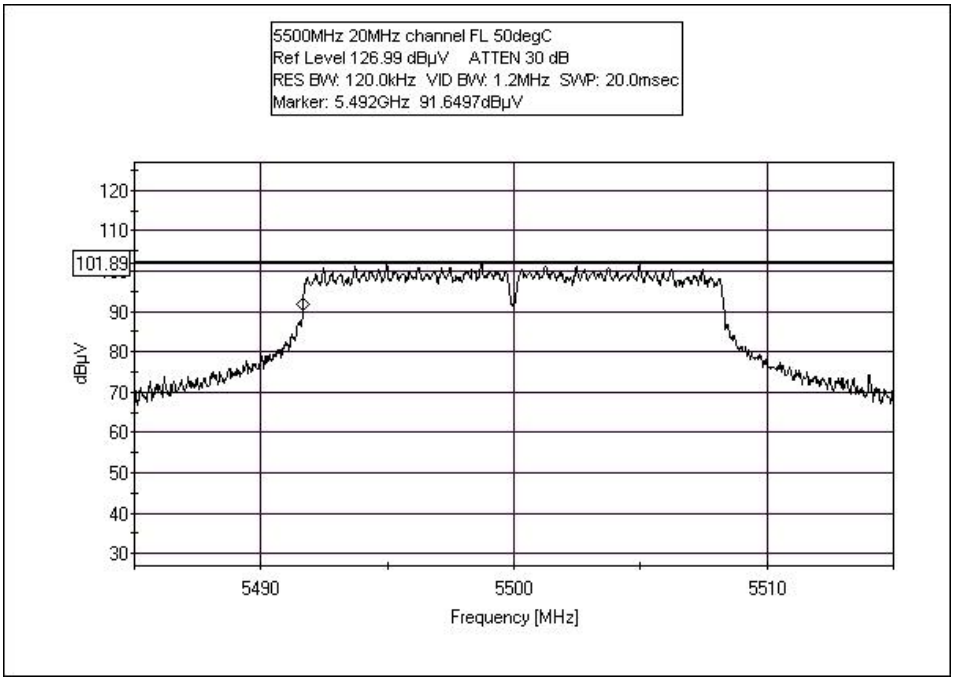

5500MHz 20MHz Channel FL 0degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 92.7637dBµV
120
110
102.09
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

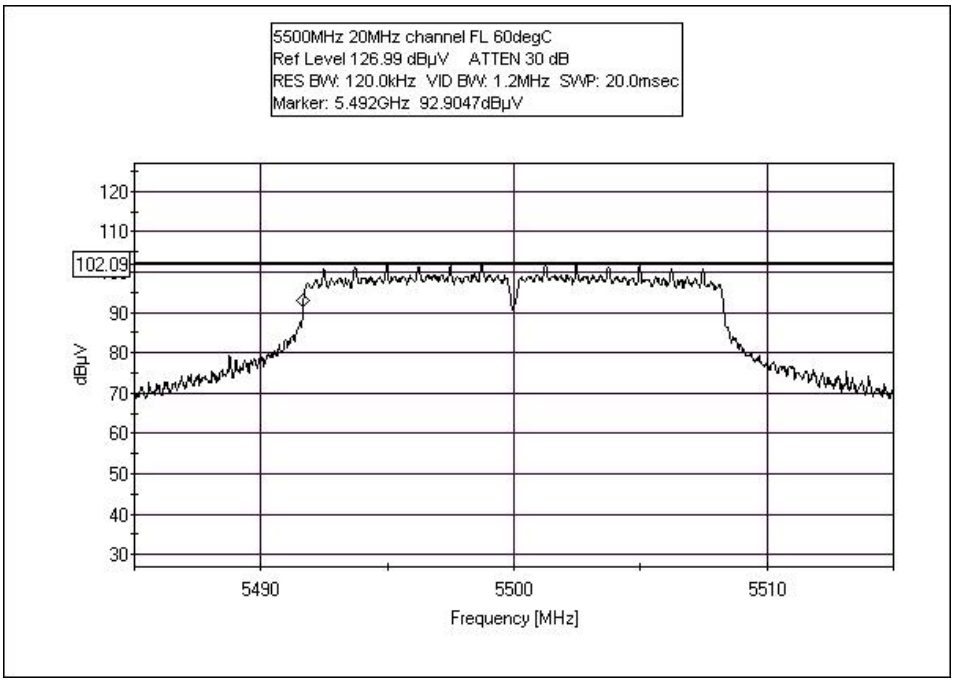

Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 93.3337dBµV
120
110
101.79
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

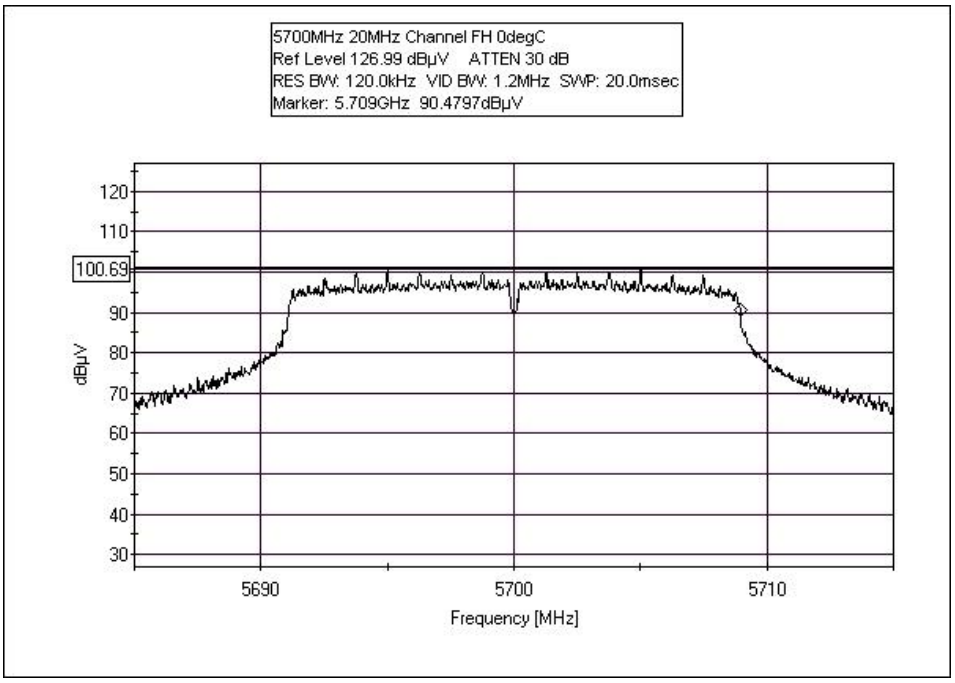

5500MHz FL, 20MHz channel ambient at 20degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 90.3057dBµV
120
110
101.09
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

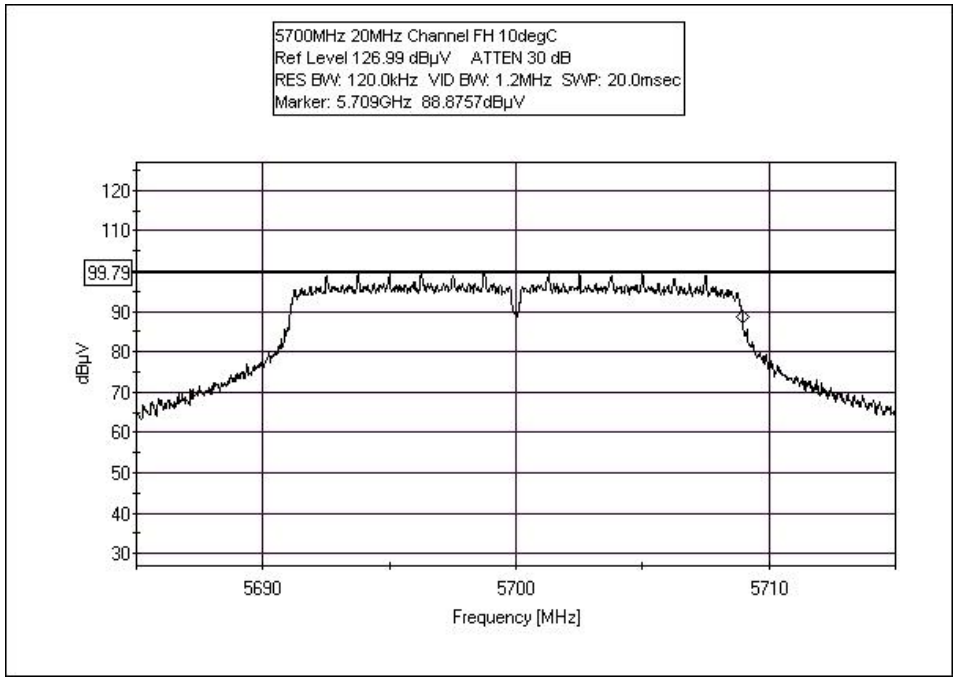

5500MHz 20MHz Channel FL 30degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 92.5067dBµV
120
110
102.09
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

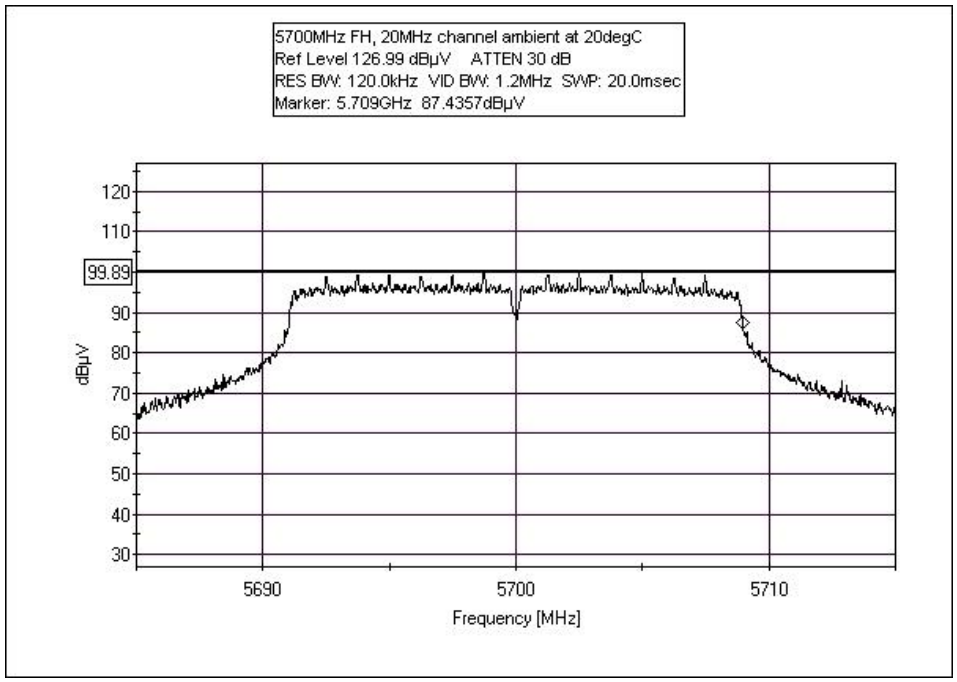

5500MHz 20MHz Channel FL 40degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 90.6027dBµV
120
110
101.69
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

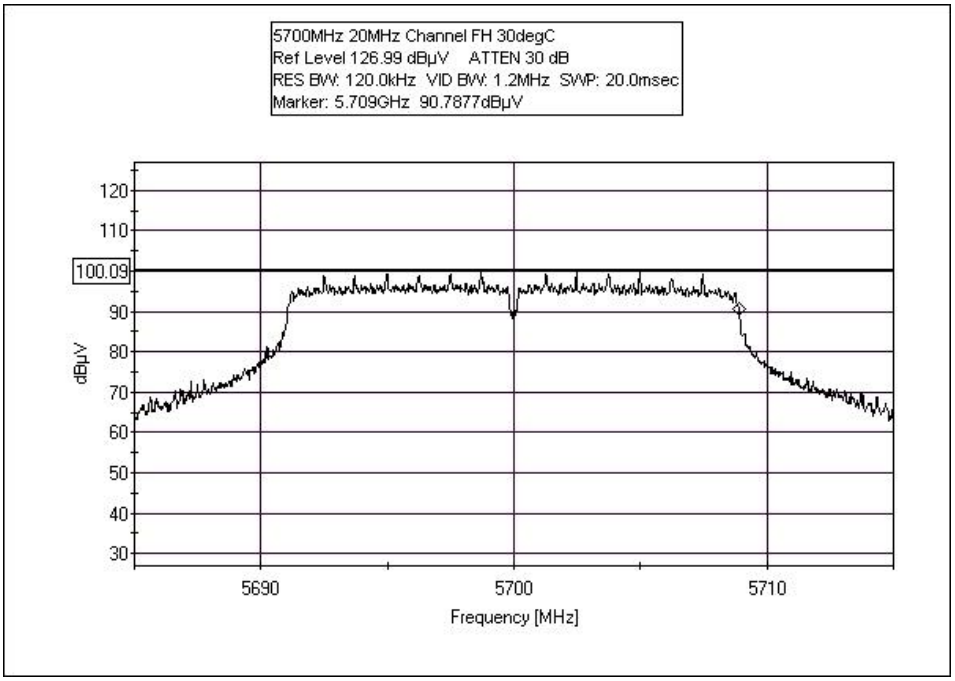

5500MHz 20MHz channel FL 50degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 91.6497dBµV
120
110
101.89
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

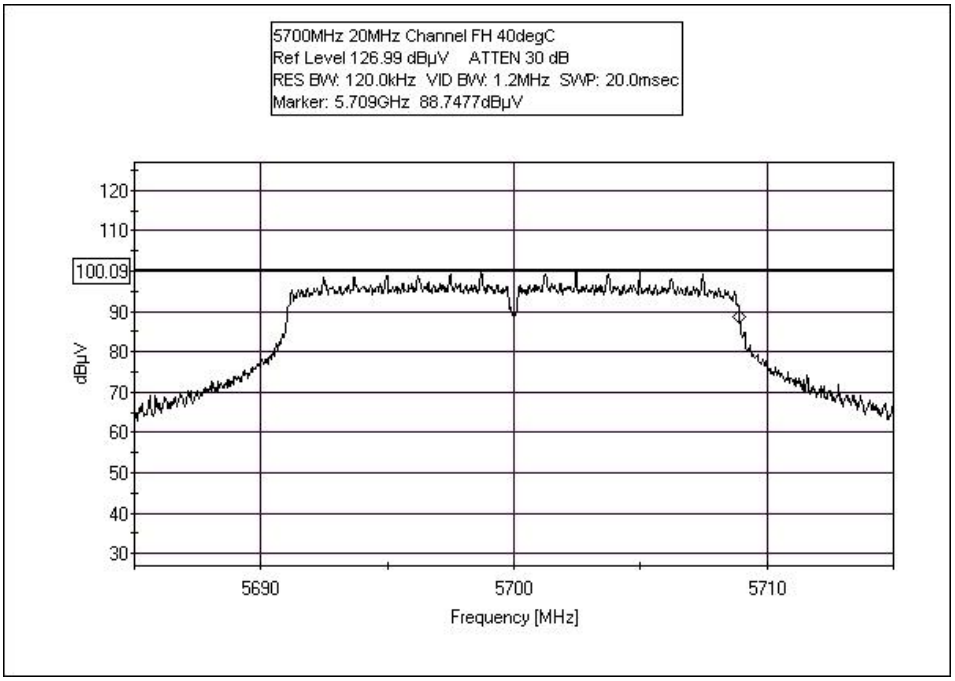

5500MHz 20MHz channel FL 60degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.492GHz 92.9047dBµV
120
110
102.09
90
80
70
60
50
40
30
dBµV
5490
5500
5510
Frequency [MHz]

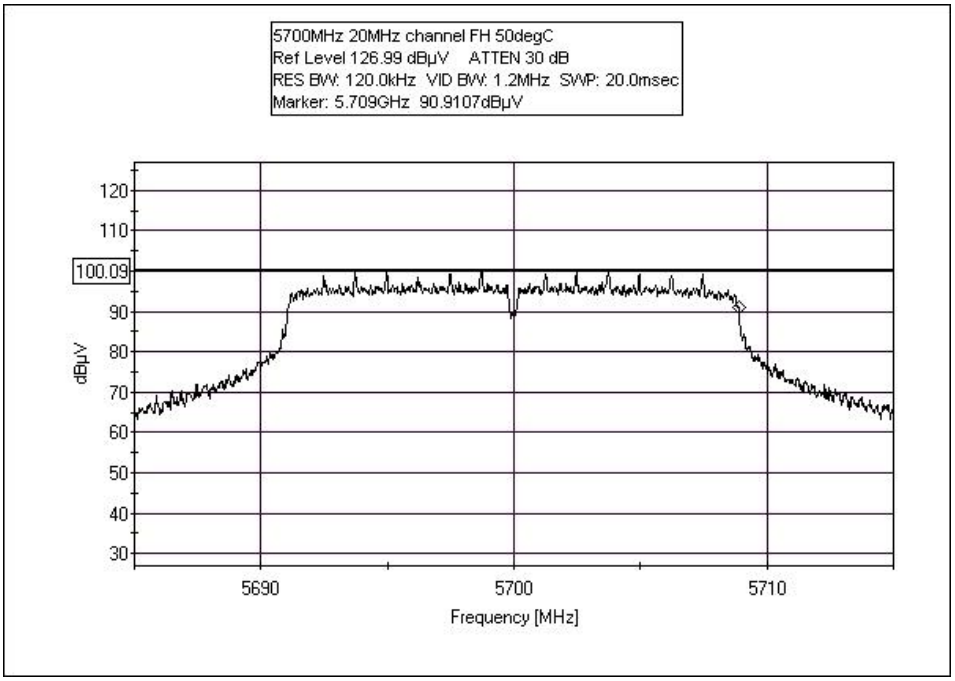

5700MHz 20MHz Channel FH 0degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 90.4797dBµV
120
110
100.69
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]

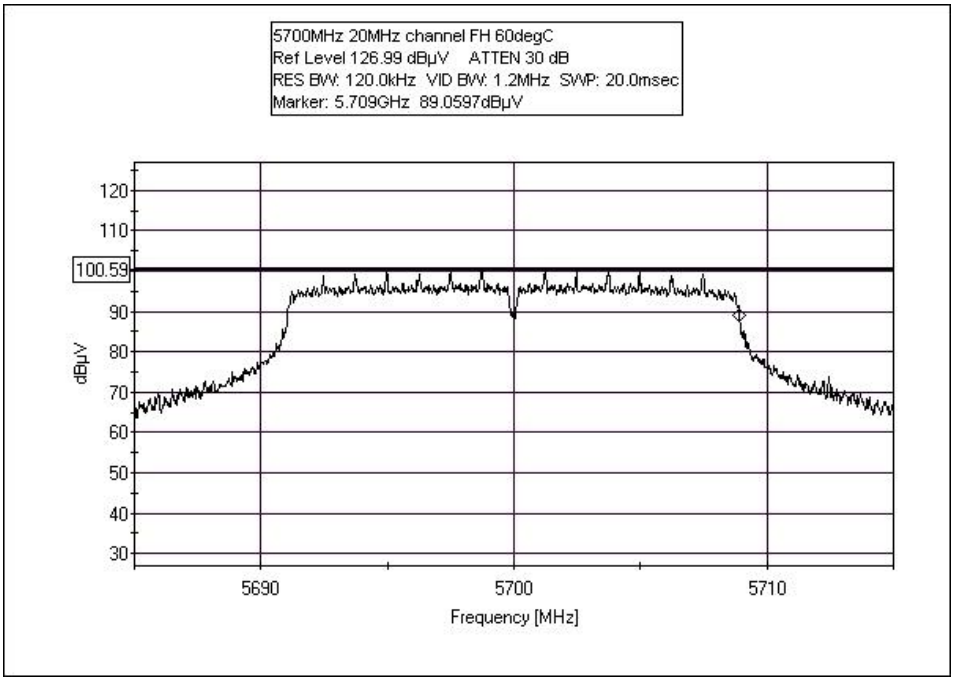

5700MHz 20MHz Channel FH 10degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 88.8757dBµV
120
110
99.79
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]


5700MHz FH, 20MHz channel ambient at 20degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 87.4357dBµV
120
110
99.89
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]


5700MHz 20MHz Channel FH 30degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 90.7877dBµV
120
110
100.09
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]


5700MHz 20MHz Channel FH 40degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 88.7477dBµV
120
110
100.09
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]


5700MHz 20MHz channel FH 50degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 90.9107dBµV
120
110
100.09
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]


5700MHz 20MHz channel FH 60degC
Ref Level 126.99 dBµV ATTEN 30 dB
RES BW: 120.0kHz VID BW: 1.2MHz SWP: 20.0msec
Marker: 5.709GHz 89.0597dBµV
120
110
100.59
90
80
70
60
50
40
30
dBµV
5690
5700
5710
Frequency [MHz]

Test Setup Photos

TEMP TEST

VOLTAGE VARIATION